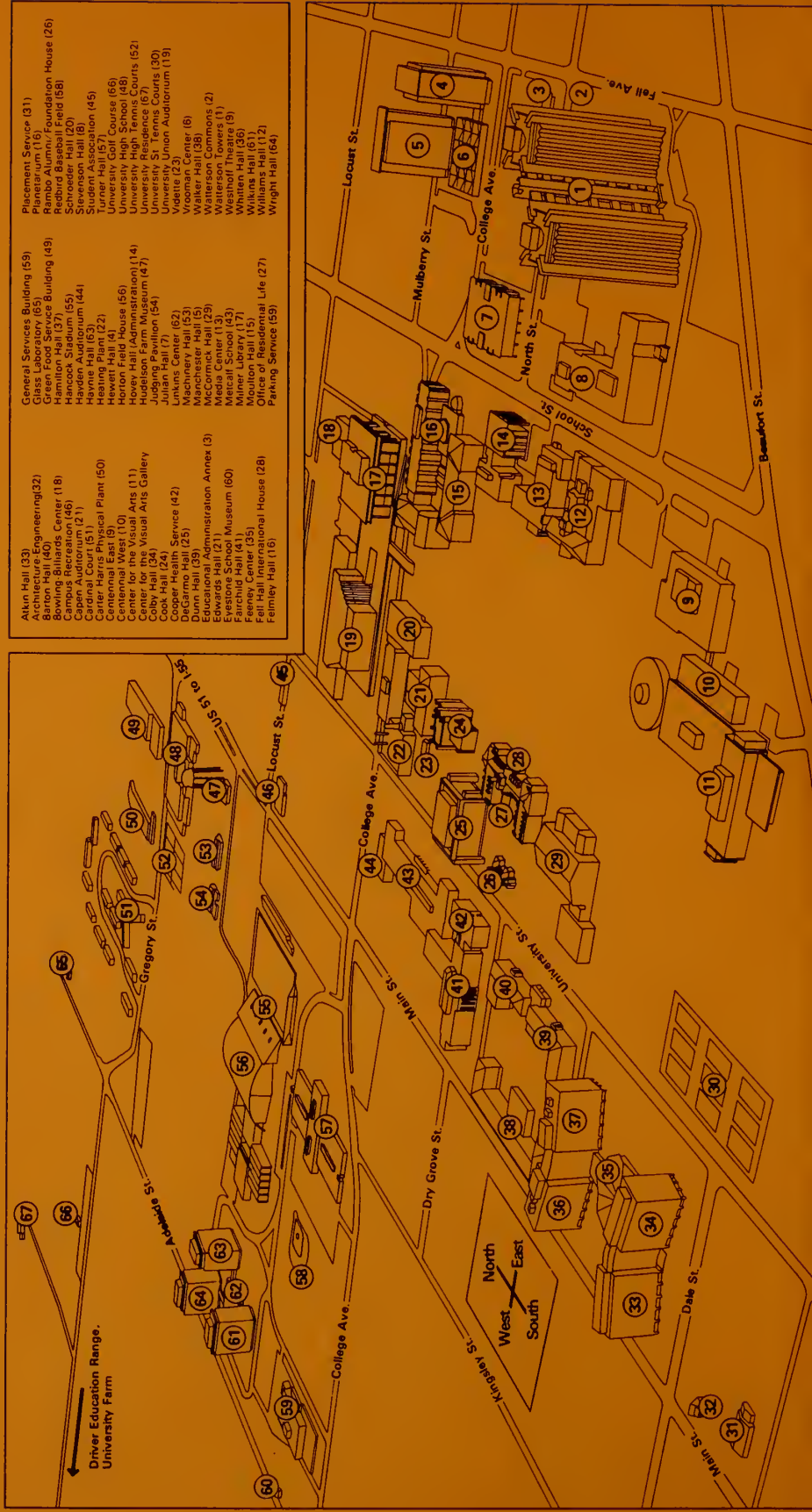


Ray

**Illinois State University  
Graduate Catalog  
1980-81**

# The University



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|--|--|--|
| Alton Hall (23)<br>Architecture and Engineering (32)<br>Barton Hall (40)<br>Bowling Billiards Center (18)<br>Campus Recreation (46)<br>Cardiac Center (11)<br>Cardinal Court (51)<br>Carter Harris Physical Plant (50)<br>Centennial East (9)<br>Center for the Visual Arts (11)<br>Center for the Visual Arts Gallery<br>Colby Hall (34)<br>Cook Hall (2)<br>Cooper Health Service (42)<br>DeGarmo Hall (25)<br>Dunn Hall (39)<br>Educational Administration Annex (3)<br>Evans Hall (43)<br>Eveystone School Museum (60)<br>Fairchild Hall (41)<br>Feeney Center (35)<br>Fairley Hall (15) | General Services Building (59)<br>Green Food Service Building (49)<br>Hamilton Hall (37)<br>Hancock Stadium (55)<br>Harkness Auditorium (44)<br>Harvie Hall (63)<br>Heating Plant (22)<br>Hewett Hall (4)<br>Horton Field House (56)<br>Hudson Hall (14)<br>Hudelson Farm Museum (47)<br>Judging Pavilion (54)<br>Julian Hall (17)<br>Machinery Hall (62)<br>Manchester Hall (5)<br>McCormick Hall (29)<br>McGinnis Hall (45)<br>Mineral School (43)<br>Miner Library (17)<br>Moulton Hall (15)<br>Office of Residential Life (27)<br>Parking Service (53) | Placement Service (31)<br>Rambo Alumni/ Foundation House (26)<br>Redbird Baseball Field (58)<br>Schroeder Hall (20)<br>Sheldon Hall (61)<br>St. Lawrence Hall (45)<br>Turner Hall (57)<br>University Golf Course (66)<br>University High School (48)<br>University Residence (67)<br>University St. Tennis Courts (30)<br>University Union Auditorium (19)<br>Vrooman Center (8)<br>Walker Hall (38)<br>Watterson Commons (2)<br>Westcott Hall (64)<br>Westhoff Theater (9)<br>Whiting Hall (61)<br>Williams Hall (12)<br>Wright Hall (64) |
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## Confidentiality of Student Records

In accordance with the Family Educational Rights and Privacy Act of 1974, Illinois State University students have the right to review, inspect, and challenge the accuracy of information kept in a cumulative file by the institution unless the student waives this right in writing. It also insures that records cannot be released in other than emergency situations without the written consent of the student except in the following situations.

- A) to other school officials, including faculty within the educational institution or local educational agency who have legitimate educational interests;
- B) to officials of other schools or school systems in which the student intends to enroll, upon condition that the student desired, and have an opportunity for a hearing to challenge the content of the record;
- C) to authorized representatives of 1) the Comptroller General of the United States, 2) the Secretary, 3) an administrative head of any educational agency, or 4) State educational authorities;
- D) in connection with the student's application for, and receipt of, financial aid;
- E) where the information is classified as "directory information." The following categories of information have been designated by the University as directory information: name, address, telephone number, date and place of birth, major field of study, year in school, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. If you do not wish such information released without your consent, you should notify the Office of Admissions and Records prior to the first day of classes.

Questions concerning this law and the University's policy concerning release of student information and the procedures for contesting the content of cumulative files may be directed to the Office of Admissions and Records, Hovey Hall 201, 438-2181.

## Equal Opportunity/Affirmative Action

*Illinois State University is an Equal Opportunity/Affirmative Action institution in accordance with Civil Rights legislation and does not discriminate on the basis of race, religion, national origin, sex, age, handicap, or other factor prohibited by law in any of its educational programs, activities, admissions or employment policies. Concerns regarding this policy should be referred to the Affirmative Action Office, Illinois State University, Normal, Illinois 61761, phone 309/438-2111. The Title IX Coordinator and the 504 Coordinator may be reached at the same address.*



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# University Calendar, 1980-1981

## 1980 Summer Session

April 4	Plan of Study and thesis proposal due in Graduate Office of any student planning to graduate in August.
April 4	Last day to apply to department to take comprehensive examination.
May 5	Plan of Study and thesis proposal due in Graduate Office of any student planning to graduate in December. (Students enrolled for Summer session only, please contact Graduate Office.).
May 12	Opening of Presession.
June 16	Opening of and registration for eight-week session.
June 19	Last day for late registration.
June 20	Last Day to apply for graduation in August
July 4	Independence Day holiday.
July 11	Foreign language proficiency examinations.
July 28	Last day to file thesis in Graduate Office for August graduation.
August 8	Summer Session Ends.

## 1980 First Semester

May 5	Plan of Study and thesis proposal due in Graduate Office of any student planning to graduate in December. (See Summer Session)
August 22	Residual Registration. See <i>Class Schedule</i> booklet for specific registration
August 25	Classes begin.
August 27	Last day for late registration and course changes.
September 1	Labor Day holiday.
September 12	Last day to apply for December graduation.
September 12	Last day to apply to departments to take comprehensive examinations.
October 3	Foreign language proficiency examinations.
October 4	Mid-semester break begins at noon.
October 8	Classes resume, 8 a.m.
November 26	Thanksgiving vacation begins at 5:30 p.m.
December 1	Classes resume, 8 a.m.
December 5	Plan of Study and Thesis Proposal due in Graduate Office of any student graduating in May
December 8	Last day to file thesis in Graduate Office for December graduation. student graduating in May.
December 15	Evaluation and review period.

## 1981 Second Semester

December 5	Plan of Study and Thesis Proposal due in Graduate Office of any student graduating in May. (see First Semester)
January 8	Registration for late afternoon and evening classes. <i>Class Schedule</i> booklet for specific registration schedule.
January 8	Program changes for students that have paid their fees.
January 9-10	Residual Registration. See <i>Class Schedule</i> booklet for specific registration schedule.
January 12	Classes begin.
January 23	Last day to apply for graduation in May.
January 23	Last day to apply to departments to take comprehensive examinations.
March 6	Foreign language proficiency examinations.
March 7	Spring vacation begins, noon.
March 16	Classes resume, 8 a.m.
May 1	Last day to file theses in Graduate Office for May graduation.
May 4	Plan of study and thesis due in Graduate Office of any student planning to graduate in December 1981
May 4-9	Evaluation and review period.

## 1981 Summer Session

May 11-June 12	Presession.
June 15-Aug. 7	Eight-week session.
July 3	Holiday

# ILLINOIS STATE UNIVERSITY

## Board of Regents

David E. Murray (Sterling) .....Chairman  
 Dan M. Martin (Chicago) .....Vice-Chairman

## Appointed Members

### 1975-1981

Dan M. Martin .....Chicago  
 David E. Murray .....Sterling  
 James M. Patterson .....Chicago

### 1977-1983

Carol Burns .....Chicago  
 Charles B. Shuman .....Sullivan  
 Harry L. Wellbank .....Crystal Lake

### 1979-1985

Jerome R. Bender .....Rockford  
 Clara S. Fitzpatrick .....Evanston  
 James L. Wright .....Chicago

## Students

Kevin Conlon, ISU Student Regent .....Normal  
 Jim Jasinski, NIU Student Regent .....DeKalb  
 Kevin J. Rodgers, SSU Student Regent .....Springfield

## Executive Director

Franklin G. Matsler .....Springfield

# University Administrative Officers

President.....	Lloyd I. Watkins
Vice President and Provost, .....	Leon E. Boothe
Associate Provost and Dean of Undergraduate Instruction .....	Stanley G. Rives
Dean of Graduate School and Chairperson of the Graduate Council .....	Charles A. White
Dean, College of Applied Science and Technology .....	Jack E. Razor
Dean, College of Arts and Sciences.....	C. Edward Streeter
Acting Dean, College of Business.....	Warren Perry
Acting Dean, College of Education.....	Benjamin C. Hubbard
Dean, College of Fine Arts .....	Charles W. Bolen
Acting Dean, College of Continuing Education and Public Service .....	Edward T. Anderson
Vice President and Dean of Student Affairs .....	Neal R. Gamsky
Vice President for Business and Finance .....	Francis B. Belshe
Secretary of the University .....	Charles E. Morris
Executive Officer .....	David A. Strand
Director of Public Affairs .....	Richard T. Godfrey

## Members of the Graduate Council

### Admissions Committee

E. Robert Steff.....	(1982)
Virginia L. Owen.....	(1981)
Benjamin C. Hubbard.....	(1980)
Betty J. Keough.....	(1980)

### Curriculum Committee

William W. Morgan.....	(1982)
Thomas E. Eimermann .....	(1981)
John A. Dossey .....	(1980)
Donald W. Eckrich .....	(1980)

### Membership Committee

M. Paul Holsinger.....	(1982)
James L. Roderick.....	(1981)
Dale E. Birkenholz .....	(1980)
Wilma J. Alexander .....	(1980)

### Research Committee

Charles T. Griffin .....	(1982)
Derek A. McCracken .....	(1981)
Joel G. Verner .....	(1980)
Reginald D. Henry.....	(1980)



## University Information

Illinois State University was founded in 1857 as the first public institution of higher learning in Illinois. The University has a proud heritage in that the documents establishing the pioneer educational undertaking were drafted by Abraham Lincoln. Today, Illinois State University is, as its founders dreamed, a comprehensive institution with degree programs at the bachelor's, master's, and doctoral levels.

Thirty-four major fields of study are offered in 32 academic departments which are organized into five colleges. The nearly 20,000 students have a full range of study options in business, liberal arts, science, fine arts, education, applied science, technology, and pre-professional fields.

A library with collections totaling more than 1.5 million complements a modern academic complex of 55 major buildings on the 711-acre campus.

The Central Illinois community of Normal-Bloomington, home of Illinois State University, has a population of 80,000.

## The Graduate School

The University began offering graduate work in 1943, when it introduced master's degree programs in several departments. Graduate work has expanded gradually since that time, with doctoral work being introduced in 1962.

Today the Graduate School offers master's degree work in more than thirty academic fields and professional education areas. The Master of Fine Arts degree is offered in Art and Theatre. Doctoral programs are offered in Art, Biological Sciences, Curriculum and Instruction, Educational Administration, Economics, English, History, Mathematics, and Special Education.

It is the chief aim of the Graduate School to provide an atmosphere in which competent students may join a qualified faculty in extending their fields of knowledge, and where they may share experience in research leading to professional improvement and scholarly achievement.

## Accreditation

Illinois State University is accredited on the master's level by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education with the exception of the program in Secondary Teaching. Application is being made to the National Council for Accreditation of Teacher Education for approval of the M.S. in Ed. for Secondary Teachers. Its doctoral programs in Art, Biology, and Educational Administration were granted full accreditation by the North Central Association in March, 1973, its and doctoral program in Educational Administration was granted full accreditation by the National Council for the Accreditation of Teacher Education in 1970. Preliminary approval has been given by the North Central Association to the Doctor of Arts program in Economics, English, History, and Mathematics, and to the Doctor of Education programs in Curriculum and Instruction and Special Education. The four D.A. programs and the Ed.D. programs in Curriculum and Instruction and Special Education will be evaluated at the

end of five (5) years. The University holds institutional memberships in the American Council on Education, the American Association of Colleges for Teacher Education, and the Council of Graduate Schools in the United States.

## Library Resources

The new library building, opened for service on July 1, 1976, provides study space for 3,000 students and shelving for some 1.5 million individual items. Each of the six floors of the Library is arranged to provide a variety of study areas — individual carrels, small tables, faculty studies, conference rooms, and lounge chairs — all located adjacent to books, periodicals, and other library materials. The subject-divisional arrangement enables students to find all materials pertaining to the humanities, the social sciences, the sciences, and education- psychology on separate floors. A General College Library on the main floor provides a smaller introductory collection for beginning students.

The collections of the University Library include 815,638 cataloged books and 268,471 U.S. Government publications, a total of 1,084,109 volumes. Many thousand additional publications are available in miniature in 42,982 reels of microfilm and 853,832 microcards and sheets of microprint. The Map Collection contains 285,122 maps, and other cartographic items, and a record collection of 17,450 recordings is available.

The Library's membership in the Center for Research Libraries makes resources of that 3,000,000-volume collection available for members of the faculty and students. A teletypewriter in Milner Library links the Library with more than two hundred research libraries throughout the country, and a courier service brings books from the University of Illinois Library three times weekly.

## Semester Plan and Summer Sessions

The University is operated on the semester plan and provides, in addition to its fall and spring semester, an eight-week summer session and a variety of short-term offerings.

In 1979 there will be a five-week session between the close of the spring semester and the opening of the eight-week summer session. During this session, a student may register for one, two, or three-hour courses at the rate of one hour of credit per week. A student may be scheduled for only one short course at any given time unless special permission has been granted.

Limited student teaching and internship facilities are available during the eight-week summer session for those who are qualified.

A graduate student may register for nine semester hours during the eight-week summer session.

**The Summer Catalog** is issued annually and may be obtained by writing to the Director of the Summer Sessions. The bulletin contains information on the cost of attendance, the schedule of classes, and special features of the summer sessions, such as short courses and workshops and other special offerings.



## Evening, Off-Campus Classes, and Mini Courses

In addition to courses offered during the regular school day, evening classes are scheduled on campus during the school year.

Selected graduate courses are offered at various off-campus centers throughout the year. **For courses offered by Illinois State University, no differentiation is made between credits earned on campus and off campus.** Inquiries concerning off-campus classes should be directed to the College of Continuing Education and Public Service, Hovey 401, or telephone 309/438-8691.

Non-credit courses and conferences are scheduled also by the College of Continuing Education and Public Service throughout the calendar year.

Mini courses one or more weeks in duration and carrying one hour of credit per week are taught during the summer on campus.

## Admission

**Who May Apply:** A student who has completed work for a bachelor's degree, or who will do so within one academic year at a college or university that is accredited by the appropriate regional accrediting association, may apply for admission to the Graduate School. While conditional admission may be granted to a senior, only those who have received a bachelor's degree will be permitted to register. Under certain conditions, however, seniors may be permitted to begin graduate work. See section on *Admissions to Master's Programs*.

**Applications and Credentials:** All students who wish to take work for graduate credit must submit a formal application for admission to the Graduate School. This includes students who have graduated from, or are attending this University. It also applies to those who wish to take university courses off campus for graduate credit. Application forms and instructions are available from the Office of Admissions and Records, Hovey Hall.

**When to Apply:** A prospective student at the master's level should file an application and arrange for Graduate Record Examination scores and official transcripts to be sent at least three weeks before the date of registration. (Under special circumstances the Director of Admissions and Records may approve applications tentatively, pending receipt of official transcripts or action by the committee on admission. Provisional admission will not be granted for short courses, or presession.)

Applicants for admission to Master of Fine Arts and Doctoral programs are encouraged to apply as early as possible. Two months should be considered as the minimum period between filing of applications and registration.

**Readmission of Former Students:** Graduate students who wish to return to the University after a lapse of one semester or more should apply for readmission through the Office of Admissions and Records at least seven days prior to the beginning of registration for the session which they wish to attend. A student who has attended another college or university during absence from

the campus should request that institution to send a transcript of the student's work to the Office of Admissions and Records at this University.

## Types of Admission

The Graduate School recognizes three types of students who are eligible to enroll in graduate courses. These are (a) degree students, (b) provisional students, and (c) students-at-large. For specific requirements for degree students, refer to the individual degree description in the Graduate Catalog.

The University admits at the terminal degree level (D.A., Ed.D., M.F.A., and Ph.D.) one type of student eligible to take graduate courses for credit. This is the student admitted to a degree program.

**Degree Student:** A degree student is one who has been admitted formally to a program leading to a degree.

**Provisional Student:** A provisional student is one whose application for a degree program is incomplete because not all required supporting material has been received in the Office of Admissions and Records. The provisional student may be granted a permit to register for one semester only, pending a decision on his/her application for admission. A provisional student is not a student-at-large. If the student with provisional status is subsequently admitted to the Graduate School, there is no guarantee that the courses taken before admission will be counted toward a degree. Acceptance of previous courses will depend upon the recommendation of the adviser and the approval of the Dean of the Graduate School. The degree-seeking applicant who enrolls as a provisional degree student accepts the risk of non-admission.

**Student-At-Large:** A student-at-large is one who does not seek a degree. A student-at-large may enroll without submitting official transcripts to the Office of Admissions and Records but is required to sign a disclaimer statement at the time of registration on campus, or at the first class meeting off campus. The disclaimer statement reads as follows:

I certify that I have the necessary preparation for this graduate course. I understand that my enrollment in this graduate-level course does not constitute admission to the Graduate School at Illinois State University. I further recognize that there is no guarantee that credits earned from my enrollment will be applicable to a degree at Illinois State University.

A student-at-large may register for courses for which he/she has the prerequisites, unless such registration is restricted by the department or the Dean of the Graduate School. If the student-at-large decides to pursue a degree at ISU, previous courses taken by that student will be examined by the proposed degree department and, if recommended by the adviser and approved by the Dean of the Graduate School, may be used in meeting the requirements for a degree program. There is no guarantee that any course work taken as a student-at-large will be counted toward a degree program.

Students-at-large may seek advice from the Dean of the Graduate School or his designee.

## Admission to Master's Programs

An applicant for a program leading to the master's degree must have a bachelor's degree from a four-year accredited college or university. Applicants are considered on the basis of their academic record and required examinations described below. In addition, other requirements may be stipulated by the individual department. These may include examinations, interviews, auditions, examples of work, and letters of recommendation. To be admitted to a degree program, a student must have at least a 2.6 grade point average (on a scale in which A equals 4) in the last 60 hours of undergraduate work and the approval of an academic department.

Prior to admission, applicants are required to present Graduate Record Examination Aptitude scores unless an alternative entrance examination is specified by the department and approved by the Dean of the Graduate School. A student who does not meet the minimum grade point requirement but whose academic record and entrance examination scores give promise of high performance may be admitted to the degree program. This admission must be based upon other documentation that the department deems important. Examples include exceptional scores on standard or additional examinations, interviews, letters of recommendation, exceptional grades in previous graduate work, samples of original work and/or demonstrated performance ability. Such recommendations for admission will be forwarded to the Dean of the Graduate School for approval. Such admission may be restricted to a trial period of one semester. Any special restrictions of this type will be noted on the admission form along with other requirements for continued graduate study. These may include the successful completion of specific courses or projects, the obtaining of a minimum specified grade point average, and/or other requirements. If these requirements are not met, the student may be terminated at the end of one semester upon the recommendation of the department and approval of the Graduate Dean.

In considering an applicant for any curriculum, there may be departmental requirements in addition to the general requirements of the University.

When an applicant has been accepted, the department adviser will indicate any courses that may be required to remove undergraduate deficiencies. The adviser also may specify certain graduate courses which will be required in addition to those listed in the catalog. The adviser will designate which, if any, of these courses may be used in meeting requirements for the degree.

A **senior in good standing** at this University may begin graduate work as a provisional student during the academic year in which the requirements for the bachelor's degree are completed, if the student applies for and is admitted to the Graduate School. During a semester, the student may not register for more graduate credit than the difference between 15 hours and the number of hours required to complete the bachelor's degree. Normally, provisionally admitted seniors enroll for six hours or less of graduate credit. It is understood that graduate credit may be received for graduate courses only if requirements for the bachelor's degree are completed during the semester or summer session in which the student begins graduate work. This opportunity is also extended to last semester seniors of other universities who find it possible to take graduate work at this University while completing require-

ments for the bachelor's degree on their own campuses. Interested students should write to the Dean of the Graduate School for further information.

## Admission to Master of Fine Arts in Art and Theatre

All regular criteria for admission to the Graduate School of the University and for graduate study in Art and Theatre will apply.

Admission to the Master of Fine Arts programs in Art and Theatre normally will occur on petition of the student after he is enrolled in a graduate program. Usually the petition will be considered after one semester of graduate study.

In the **Department of Art**, graduate students must be accepted by the Department of Art. This will require the submission of a portfolio of the student's work, an example of scholarly writing, and three letters of recommendation. This material will be reviewed by the members of the studio faculty in the student's intended area of concentration. After final admission evaluations have been completed, Admissions and Records will notify the student of admission to the Master of Fine Arts program.

The student not recommended for admission to the Master of Fine Arts will receive an evaluation of his/her deficiencies, if specifically requested. The evaluation committee will prescribe courses or other experiences to remove the deficiencies. After removing the deficiencies the student may reapply for admission. A student may reapply for admission only once.

In the **Department of Theatre**, graduate students who hold no master's degree will ordinarily be eligible for admission to the Master of Fine Arts program after completing 12 graduate hours in theatre courses at Illinois State University or upon recommendation of the department's graduate faculty. Students with a master's degree may be admitted after 8 hours, or upon recommendation of the department's graduate faculty. After completing the necessary hours, the student will be permitted to audition by portfolio and performance. The audition will be evaluated by the graduate faculty. A written evaluation of the candidate will be presented to the department chairperson. The student not recommended for admission will receive an evaluation of deficiencies; the evaluation committee will prescribe courses or other experiences to remove the deficiencies. A student may reapply for admission only once.

## Admission to Certificate of Advanced Study

A student seeking admission to the Certificate of Advanced Study in Educational Administration must hold a masters degree or equivalent from an accredited university, have earned a minimum grade point average of 3.25 in work leading to the masters degree (on a scale in which A equals 4) and present three letters of recommendation. Admission for an applicant will take into account personal and professional qualifications as well as scholastic records. Admission involves approval by the department as well as the Graduate School.



## Admission to Doctoral Programs

A student seeking admission to a doctoral degree program must present letters of recommendation and must take qualifying examinations before being admitted to the program. The student may be required to come to the campus for an interview. Tests for admission are described below.

Admission of an applicant to a doctoral program will take account of personal and professional qualifications as well as scholastic records and measurement of academic ability. Admission involves approval by the department as well as the Graduate School.

## Tests Required for Admission

**Master's Programs:** All students seeking admission to master's degree programs must submit scores on the Aptitude Test of the Graduate Record Examination. Applicants to the Departments of Geography; Psychology; and Sociology, Anthropology, and Social Work should also submit scores on the Advanced Test in their field of study. Students seeking admission to Business departments should substitute the Graduate Management Admission Test for the above examination. Arrangements for taking these examinations can be made locally in the Measurement and Evaluation Office, 115 Julian Hall or by writing to Educational Testing Service at either Box 955, Princeton, New Jersey 08540, or 1947 Center Street, Berkeley, California 94704.

**Master of Fine Arts Program:** Students seeking admission to M.F.A. programs should consult the index.

**Doctoral Programs:** All students seeking admission to doctoral programs must submit scores on the Aptitude Test of the Graduate Record Examination and the appropriate advanced test. Information concerning this examination may be obtained at testing centers or by writing to Educational Testing Service at either Box 955, Princeton, New Jersey 08540, or 1947 Center Street, Berkeley, California 94704.

**English Examination for International Students:** Illinois State University requires that students from non-English speaking countries who seek admission to the Graduate School must take the *Test of English as a Foreign Language*. Students wishing to take this examination should write to TOEFL, Educational Testing Service, Princeton, New Jersey 08540. They will be informed as to testing centers nearest their homes and the dates on which the examination will be offered. Following the completion of the examination they should ask the Educational Testing Service to send test scores to the Graduate School, Illinois State University, Normal, Illinois 61761.

The minimum TOEFL score required for foreign graduate admission is 530 for all graduate departments. Students who score between 530 and 550 on the TOEFL will be required to sit for an ISU-administered English placement examination. Those who score below a set minimum will be required to enroll in a special English course designed for foreign students. Departments may require higher scores at their discretion.

Any department may, because of the nature of study in the department, request permission from the Graduate

Dean to screen all foreign students with scores lower than 530 and may make exceptions to this admission rule by notifying the Admissions Office and the Graduate Dean.

## Admission to Teacher Education Programs

Students who have been admitted to the Graduate School and who wish to take work leading to certification for public school positions in Illinois should send or take transcripts of their past work, plus a \$20.00 certified check or money order, to the nearest Superintendent of an Educational Service Region requesting an evaluation for the particular certificate in which they are interested. Students will need to meet all state requirements for certification that are in effect at the time of application as well as at the time of completion of all requirements for certification. Beginning September 1979 all applicants for a teaching certificate need to have 100 clock hours of approved pre-student teaching experiences prior to assignment to student teaching. The Superintendent of the Educational Service Region will forward the check and formal application to the State Teacher Certification Board. Students should not write directly to the State Teacher Certification Board.

All students seeking to complete certification requirements at Illinois State University must meet University standards for teacher education programs. Students who wish to enroll in student teaching must file an official application for Admission to a Teacher Education Program in the Office of Clinical Experiences and Certification Processes, 309 DeGarmo Hall; be admitted to a Teacher Education Program by stated deadline dates; and meet all requirements as outlined for Admission in the *Undergraduate Catalog* by stated deadline dates prior to being assigned to do their student teaching.

**Procedures for Admission:** Application forms for Admission to Teacher Education are obtained from the Office of Clinical Experiences and Certification Processes, 309 DeGarmo Hall. STUDENTS MUST OBTAIN, COMPLETE FORMS AND RETURN THEM TO THE OFFICE BY ESTABLISHED AND PUBLISHED DEADLINES. Students need to meet all requirements for Admission to Teacher Education including specified grade point average in the major field as well as overall grade point average, completion of all professional education coursework, successful completion of all major field coursework, and complete required clinical experiences, as well as all other requirements outlined by the Office of Clinical Experiences and Certification Processes. Students must obtain and complete the forms and return them to the Office by established and publicized deadlines.

**Student Teaching:** Application forms for Student Teaching are obtained from the Office of Clinical Experiences and Certification Processes, 309 DeGarmo Hall. Students must be formally admitted to a Teacher Education Program by stated deadline dates and must complete all professional education requirements and required clinical experiences by stated deadline dates prior to being assigned to do their student teaching. The Application for Student Teaching is a separate application from the Application for Admission to Teacher Education.

Graduate students who wish to do their student teaching must file an official Application for Admission to a Teacher Education Program and be admitted to a Teacher

Education Program by stated deadline dates. Graduate students should refer all questions related to Admission to Teacher Education and Student Teaching to the Office of Clinical Experiences and Certification Processes, 309 De-Garmo Hall. Students must complete 100 clock hours of approved pre-student teaching clinical experiences prior to assignment to student teaching.

Additional Information related to Assignment to Student Teaching can be found in the current *Undergraduate Catalog*.

## Academic Procedures and Regulations

**Academic Load:** Twelve hours is the usual load for the graduate student during the semester. The maximum academic load for graduate students is 15 semester hours.

In the eight-week summer session the maximum load is nine semester hours. It is recommended that a fully employed person not enroll for more than six hours during any semester.

If a student holds an assistantship the academic class load is adjusted accordingly.

Scholastically, the ideal academic work load for graduate assistants is nine (9) hours. An assistant wishing to take fewer than nine (9) hours or more than twelve (12) hours must have a recommendation by his or her graduate adviser which is approved, in writing, by the Dean of the Graduate School.

**Auditing Privileges:** A student may register as an auditor in a class or classes if facilities are available. An auditor does not participate in the activity of the class, but is expected to attend regularly. An Audit (AU) designation will appear on the student's transcript when the instructor certifies that the student has attended the class on a regular basis. If the student has not attended regularly, a WX will be recorded on the transcript after the instructor has sent a written notification to the Office of Admissions and Records that the student has not attended regularly. To register as an auditor, a student must register for the course. Then the student must get the instructor's signature on an auditor's permit which can be obtained from the Registration Office. Students must register to audit a course by the tenth day of classes in the semester with any exception having the approval of the department Chairperson in which the course is offered and the Dean of the Graduate School. The auditor fee is shown in the section on costs. Students who are registered for 12 or more hours for credit may audit courses without additional fees. Audited courses are considered part of the student's total load.

**Comprehensive Examinations:** Comprehensive examinations may not be administered more than three times to individual students.

**Commencement:** Degrees are conferred and diplomas awarded after the close of each semester and summer session. Commencement is held once each year at the end of the spring semester. Participation is voluntary. Graduate students who expect to complete degree requirements prior to May commencement may participate in that commencement. Those who will finish their degree requirements after May commencement may participate in the following commencement during the next academic year.

Upon receipt of a Master's or Doctoral degree from Illinois State University the student's major classification will be changed to student-at-large unless the student applies for a second master's degree or an advanced graduate degree.

**Course Numbering System:** This *Graduate Catalog* contains courses numbered 300 to 599.

300-399 Advanced undergraduate courses. Open to juniors, seniors, and graduate students unless the department has designated a 300-level course for undergraduate students only.

400-499 Graduate courses.

500-599 Courses limited to advanced graduate or doctoral students.

The following information is given for each course, in the following order: course number (3 digits preceding the title), course title and credit value (in semester hours). Following the above course description any prerequisites, restrictions on enrollment, and any special considerations are noted.

**Grading System, Scholarship, and Other Requirements:** Passing grades in the Graduate School are A, B, and C, which represent grade points of 4, 3, and 2, respectively, in figuring grade point averages. **Courses completed at this University with grades below C may not count toward a degree, but these grades C, D, and F are counted in computing the average.** If a graduate student repeats a course, both grades are counted in computing the average.

A student must have at least a B average in work done at this University in order to be admitted to candidacy for a degree. For graduation a B average is also required. The Dean, in consultation with the student's adviser, may ask a student whose work is unsatisfactory to discontinue graduate work or grant a probationary period in which to bring work up to required standards. **A student who fails to bring the total record up to a B average during the probationary period will not be permitted to register for further graduate work.**

It is the student's responsibility to make a formal request for the transfer of any credit which the student proposes to use in meeting requirements at this University. Transfer credit must carry a grade of B or better.

Forms for requesting transfer of credit may be obtained from the Graduate School Office.

The last course or courses before graduation must be completed with this University.

The Council may deny admission to the University, or registration at any time or admission to candidacy for the degree, upon the basis of unsatisfactory scholarship, or what in their judgment is unfitness for teaching on physical, moral, mental, or emotional grounds.

**Graduation:** The graduate catalog contains detailed information on requirements for graduation.

Each student must meet all requirements for his curriculum.

A graduate student must apply for graduation in the Graduate Office, 310 Hovey Hall, before the deadlines



specified for each session in the calendar in this catalog. At the time application is made, the graduation fee of \$15 must be paid.

**Incompletes and Deferred Grades:** An I (incomplete) will be given a student who is doing passing work but who, because of illness or other justifiable reasons, finds it impossible to complete the work by the end of the semester or session. The student must be in class to within three weeks of the close of the semester or one week of the summer session and the quality of the work must be such that the student can complete it through special assignments and examinations. Incompletes should be cleared during the next semester or session a student is in school and must be cleared before one year has elapsed. A deferred grade (De) is always given in research courses leading to a thesis or dissertation.

A student expecting to graduate at the end of any semester or session should be sure to have incompletes cleared in the Office of Admissions and Records at least three weeks before the end of the semester in order to give adequate time for the records to be cleared for graduation.

**Religious Observances:** The University will **reasonably** accommodate its students, faculty, and staff who are unable to fulfill their regular duties on the occasion of a religious observance. Faculty and staff should observe normal procedures for absence from their duties. Students who are unable to attend class or take examinations for religious reasons will be given information needed to make up classes and work which were missed or to take the examination on an alternate, acceptable day.

**Semester Plan:** The University operates on the semester plan. The value of courses is, therefore, in terms of semester hours. A semester hour is assigned for a fifty-minute period of lecture or discussion for a semester of 18 weeks. For laboratory two 50-minute periods are necessary for a semester hour.

**Teaching Staff:** The members of the teaching staff of each department are listed in the departmental sections which follow. The entire faculty for the Graduate School is shown in a section after **Departments and Course Offerings**.

**Transfer of Degree Programs:** A transfer of degree programs requires a B average.

## Withdrawals

**Withdrawals from Courses—Less Than All Courses:** The following policy applies where a student drops a course or courses, but not all courses in which the student is registered during a particular semester. The Dean of the Graduate School strongly advises students to make a commitment to complete courses in which they are enrolled whenever possible and not to withdraw from courses after the program change period unless absolutely necessary. A student may withdraw from a course during the program change period without the withdrawal being indicated on the transcript. After the tenth day of classes in the semester a student must meet with the instructor of any course from which the student is planning to withdraw, have a withdrawal form signed by the instructor, and file the signed withdrawal form with the Registration Office within 24 hours.

After the tenth day of classes in the semester, a student may officially withdraw from a course with a grade of WX at any time prior to the end of the sixth week of classes of the semester (prior to the end of the third week of classes of an eight-week course and prior to a proportionate time in a pre-session or other short course). Between the start of the seventh week and the end of the thirteenth week of classes (prior to the end of the sixth week of classes of an eight-week course and prior to a proportionate time in a pre-session or other short course), a student may officially withdraw from a course with a grade of WX, WP, or WF as assigned by the instructor. WX is given if the student withdraws before the quality of work can be determined; WP, if the student is passing at the time of withdrawal; and WF, if the student is failing. A grade of WF shall be computed as a failing grade in computing the student's grade point average. A student should consult the Class Schedule booklet and Summer Session Catalog for specific withdrawal dates for a given term. Upon the written recommendation of a physician, a student may for medical reasons be granted permission to officially withdraw from a course at a later time than the dates specified.

A grade of F will be given to students who withdraw from a course unofficially by not having a withdrawal slip signed by the course instructor and placed on file in the Registration Office, who register for a course but do not complete course requirements, or who withdraw from a course after the thirteenth week of classes (or comparable date specified above). In exceptional cases, deviations may be granted by the Dean of the Graduate School.

**Withdrawal from the University—All Courses:** If a student withdraws from the University, all grades will be assigned in the same manner and under the same provisions stated above except that the student is not required to contact his or her instructors. Instead, the instructor of each course would assign a WP, WF, WX, or letter grade as appropriate. If medical or similar substantial reasons make it impossible for the student to follow the usual procedures, a letter signed by the student explaining the situation and requesting withdrawal from the University will be sufficient. Whether in person or by mail, the withdrawal is processed in the Office of Admissions and Records.

Regardless of the circumstances of withdrawal, the student shall be responsible for returning any laboratory equipment and library materials. The student shall pay any parking fines and remove the parking decal from any registered vehicle. The student shall contact the Office of Residential Life to obtain clearance from room and board obligations and to arrange for vacating the residence hall room. The student shall arrange with the Financial Aids Office to place any scholarship on leave or cancel it and arrange a payment plan for any loans.

A grade of F will be given to students who do not officially withdraw with the Office of Admissions and Records before the specified final withdrawal date, and to students who register for a course but do not complete course requirements. In exceptional cases, deviations may be granted by the Dean of the Graduate School. In the case of graduate students, the F will count toward the graduate student's grade point average.



# Cost and Living Accommodations

## Fees — Residents of Illinois

Tuition and registration fees must be paid at or near the opening dates of the semester by the dates specified in the class schedule booklet. All fees are subject to change without notice because action regarding them may be taken after publication of this catalog.

### Each Semester

For students who register for 12 or more semester hours:

Tuition*	\$306.00
General Activity Fee.....	19.50
Athletic and Service Fee .....	28.00
Student Health Insurance .....	27.50
University Union Fee .....	35.00
Recreational Facilities Fee .....	9.00
Health Service Fee.....	18.75
	<u>\$443.75</u>

For students who register for fewer than 12 semester hours:

Tuition Per hour .....	\$ 26.00
Athletic and Service Fee** .....	14.00
University Union Fee .....	17.50
General Activity Fee* * *	6.00

### Eight-Week Summer Session

Full time (six or more hours):

Tuition .....	\$153.00
General Activity Fee.....	9.75
Athletic and Service Fee .....	14.00
Student Health Insurance .....	13.00
University Union Fee .....	17.50
Recreational Facilities Fee .....	4.50
Health Service Fee.....	9.50
	<u>\$221.25</u>

Part time (less than six hours):

Tuition per hour .....	\$ 26.00
General Activity Fee*** .....	5.00
Athletic and Service Fee** .....	7.00
University Union Fee .....	8.75

### Pre-Session and Short Courses

Tuition per hour .....	\$ 26.00
University Union Fee per course .....	4.00

### Auditors

Fees for students who take all courses as auditors without credit:

Tuition per hour .....	\$ 26.00
Maximum charge for a semester .....	306.00
Maximum charge for eight-week summer session .....	153.00

## Other Fees and Expenses

Late registration and/or late payment fee.....	\$10.00
charged after scheduled dates	
Registration Fee.....	\$26.00
Master's Thesis 499.01 (Audit)	
Doctoral Dissertation 599.01 (Audit)	
Locker and towel fee for student in physical education courses .....	\$ 3.00
Refunded when padlock is returned (\$2.00)	
Transcript of Record .....	\$ 1.00
transcripts are issued only when all obligations have been met	
Graduation fee .....	\$15.00
must be paid before deadline published in class schedule	
Doctoral dissertation fee (microfilming) .....	\$30.00
Doctoral dissertation fee (copyright) .....	\$20.00
optional	

Material charges listed under course offerings in the University catalogs are optional. A student may supply his or her own materials and request the instructor, in writing, to waive the material charge.

## Tuition and Fees — Out-of-State Students

A student who is not a resident of Illinois pays the non-resident tuition fee as indicated below. All other fees are the same for non-residents.

A student under 18 years of age is considered a non-resident if the student's parents are not legal residents of Illinois. A student over 18 years of age is considered a non-resident if the student is not a legal resident of Illinois at the time of registration. The Director of Admissions and Records is responsible for applying out-of-state fees. Tuition and fees are subject to change by action of the Board of Regents of the General Assembly.

### Each Semester

Non-resident tuition (12 or more semester hours).....	\$918.00
Non-resident tuition (fewer than 12 hours, per hour).....	78.00

### Eight-Week Summer Session

Non-resident tuition (More than three semester hours) .....	\$459.00
Non-resident tuition (three semester hours or less, per hour) .....	78.00

\*Graduate Assistants and Fellowship holders, see Index.

\*\*Students registered for fewer than 12 hours pay the \$14.00 Athletic and Service Fee and are admitted to athletic events, for which admission is charged, at a rate which is midway between the price charged, a full-time student and the adult general admission ticket holder. Part-time students registered for more than 6 but fewer than 12 hours may elect to pay the Athletic and Service Fee of \$28.00 and be entitled to the same privileges as full-time students for all athletic events, providing the \$28.00 Fee is paid by the tenth scheduled class day.

\*\*\*Students registered for more than six but fewer than 12 hours may purchase an activity ticket by paying the Gen-

eral Activity Fee of \$19.50 by the tenth scheduled class day. Payment of this fee by part-time students does not extend the privilege of playing at the Golf Course for student rates.

## Student Health and Accident Insurance

Each student admitted to the graduate program who is enrolled for nine or more hours is assessed a fee to purchase a health and accident insurance policy. This policy provided for 100 percent payment of the first \$500 of in-patient hospital expenses and 80 percent of such expense above \$500. Outpatient emergencies are covered 100 percent to a maximum of \$300. Non-emergency outpatient services are generally covered at 80 percent to a maximum of \$300. It covers 80 percent of the reasonable expense for a surgeon or certain physicians' fees other than those for surgery. There is also an allowance for consultation and ambulance fees. The maximum amount payable for any one accident or sickness is \$10,000. The student's coverage is effective on the date on which University classes begin.

Those students who can produce evidence of equal or better coverage may apply for a refund of the insurance fee by contacting the Office of University Insurance. Application must be submitted within ten class days following the date on which University classes begin.

Coverage for a student's spouse and children may be obtained at an additional cost in the Office of University Insurance if applied for within 10 class days after the date on which University classes begin.

Students who wish to maintain continuous year-round coverage may purchase coverage for the Summer period whether or not they are enrolled in Summer School. This should be done prior to the Spring commencement date. The five-week period between commencement and the start of Summer Session is not covered in any registration fees and coverage must be purchased separately before the end of Spring semester.

Claim forms and brochures explaining the coverage are available in the Office of University Insurance.

## Student Health Center

All students who are not also I.S.U. faculty or staff members may use Student Health Center facilities located in Fairchild Hall near the center of campus.

Students registering for 9 or more semester hours during the first and second semester (6 or more for summer school) pay a Health Fee automatically with other fees at the beginning of each session. This fee entitles the student to Health Center services for the entire session.

Students who register for fewer than 9 semester hours (fewer than 6 for summer school) have an option of paying the Health Fee by the 10th day of classes (5th day for Summer School) or obtaining service on a "pay-as-you-go" (fee-for-service) basis. Pre-session students and spring semester students who do not plan to attend summer classes (but are pre-registered for fall) may obtain prepaid summer Health Center care if they pay the appropriate Health Fee by the 5th day of Pre-session classes. All optional Health Fees are payable at the Student Health Center.

University physicians are available for consultation during regular clinic hours. A registered nurse is on duty at all hours of the day and night except during official vacation periods as scheduled on the University calendar.

## Refund Policy

A student who has registered and officially withdraws from the University may receive a refund of tuition and fees including any advance deposit thereon, according to the following schedule:

If withdrawal is prior to the first regularly scheduled class day- all tuition and fees.

If withdrawal is within the first fifteen calendar days after the first regularly scheduled class day-all tuition and fees less a service charge not to exceed twenty percent of the tuition and fees charged a full-time, undergraduate, in-state student.

If withdrawal is after the fifteenth day but no later than the thirtieth calendar day after the first regularly scheduled class day-twenty-five percent of the tuition charge only.

The university may designate shorter refund periods for summer session, special courses, and short courses.

A student who changes from full-time to part-time status or a part-time student reducing the number of credit hours carried, may receive a refund of tuition and fees according to the following schedule:

If the reduction is on or before the fifteenth calendar day after the first regularly scheduled class day-all tuition and fees not applicable to the new part-time status. A student receiving a refund of fees will not be eligible for activities and benefits covered by such fees. A service charge is not applicable to a student who changes from full-time to part-time status.

If the reduction is after the fifteenth but no later than the thirtieth calendar day after the first regularly scheduled class day-twenty-five percent of the difference in tuition charge only. The student would continue to be eligible for the activities and benefits covered by the other fees paid.

The university may designate shorter refund periods for summer session, special courses, and short courses.

The student may receive a refund of insurance fee if the student demonstrates equal or better insurance coverage on or before the fifteenth calendar day after the first regularly scheduled class day.

A student whose course of study requires absence from campus for the entire term shall, upon proper application, receive refund of activity, health service, and athletic fees. The application for such refund must be made on or before the fifteenth calendar day after the first regularly scheduled class day.

Pursuant to guidelines established by the University, part or all of a student's tuition and fees may be refunded because of the student's death or disability, extreme hardship, or institutional error.



A student may receive a refund of tuition and fees if a scholarship is awarded which covers those fees. The application for refund must be made no later than 60 days after the close of the session.

A student may receive a refund of tuition and fees if the university declares him ineligible for enrolled status prior to the first day of regularly scheduled class.

The statement of the refund policy for university housing is a part of the housing contract.

**\*This Refund Policy contingent upon final approval of the Board of Regents.**

## Living Accommodations

Inquiries regarding housing should be addressed to the Office of Residential Life.

Handicapped students are requested to also contact the Coordinator of Services for the Handicapped, Office of the Secretary, Hovey Hall 301.

**On Campus:** The University operates both residence halls and family apartments. Full information and assistance in acquiring space in a residence hall suited to the individual student's particular life style will be provided by the Residential Life Office staff.

**Off Campus:** Apartments and rooms are available in the Bloomington-Normal community.

## Assistantships, Scholarships, Financial Aids, and Employment

### General Information:

There are three major types of financial aid programs available to graduate students: grants & scholarships, loans, and employment. Many graduate students at ISU receive financial assistance from these aid sources each year which helps them pay for their educational related expenses. All financial aid is coordinated through the Financial Aid Office located in Hovey Hall, 211. Scholarship, grant, and loan checks issued by ISU will be automatically credited or restricted to pay in full all outstanding University debts, charges, and penalties, including registration and housing charges.

The process of applying for need-based financial aid at ISU requires the filing of an ACT Family Financial Statement (FFS). The FFS is the application to complete in order to be considered for a College Work-Study job, a National Direct Student Loan (NDSL), and a limited number of University Grants awarded through the Financial Aid Office. More detailed information may be obtained from the ISU Financial Aid Brochure available through the Financial Aid Office. The preferential filing date for ISU aid applicants is March 1 each year. Applications received after March 1, 1979 will be considered late and will be processed according to the availability of funds.

### Satisfactory Progress

**Policy:** In order to encourage completion of degrees, and to prevent abuses, Illinois State University requires satisfactory progress toward a degree as an eligibility requirement for continued financial assistance.

The amount of any financial aid award is based on a number of factors, including the number of hours in which the student is enrolled at the time the funds are disbursed.

Students who receive financial aid based on enrollment for 12 or more hours per semester must earn at least 24 semester hours credit per year. (A "year" is two semesters plus one summer session.) See *illustration 1*. Students who receive financial aid based on enrollment for at least 9 but fewer than 12 hours per semester must earn at least 18 semester hours credit per year. Students who receive financial aid based on enrollment for at least 6 but fewer than 9 hours per semester must earn at least 12 semester hours per year. See *illustration 2*. At the stated minimum progress, a student could not graduate within four years, could exhaust eligibility under certain financial aid programs prior to degree completion, and could fail to meet certain academic standards (see applicable undergraduate or graduate catalog).

Prior to the disbursement of funds for any award period, the University will review the eligibility of applicants.

Those not making satisfactory progress will be denied aid and notified in writing of the denial.

**Re-Establishment of Eligibility** Students denied financial aid for not making satisfactory progress may regain their eligibility by earning the number of credit hours deficient without the benefit of state or federal financial aid.

#### Illustrations

1. You may receive aid for the summer session to earn the credit hours you are lacking from the previous semester(s) to meet the satisfactory progress requirements.

2. Students who change their enrollment status will be evaluated according to their status at the time financial aid was received each term. See table of examples below:

Full Time	Full Time	24 Hours
Full Time	3/4 Time	21 Hours
Full Time	1/2 Time	18 Hours
3/4 Time	3/4 Time	18 Hours
3/4 Time	1/2 Time	15 Hours
1/2 Time	1/2 Time	12 Hours

### Students-at-Large

Graduate students-at-large are defined as those students not enrolled in a specific graduate degree program. Federal Regulations specifies that financial aid CANNOT be awarded to students who are not in a specific degree program.

### Grants and Scholarships

Grants and scholarships are available on a limited basis through Federal, State, ISU, and private sources for graduate students. Federal gift aid programs include GI Bill Benefits, fellowships, and traineeships. State scholarships include Special Education Scholarships, Illinois Military Scholarships, General Assembly Scholarships, and

National Guard/Naval Militia Scholarships. ISU grants and scholarships include Regents' Tuition Waivers which are awarded by over 20 departments. Tuition waivers are also available as part of a graduate assistantship contract. Private agencies including clubs, foundations, organizations, corporations, and churches also provide limited scholarship funds for graduate students.

**The Ada Belle Clark Welsh Scholarship:** The Ada Belle Clark Welsh Scholarship Fund provides tuition and *direct academic costs* (not including *personal costs and expenses*, such as travel, and room and board) to *women with undergraduate degrees who show promise and are deserving of a graduate educational opportunity in the field of liberal arts and humanities, including study for teacher preparation or improvement.*

Specific criteria shall include, in order of importance: A record of academic excellence, evidence of career orientation, and need

The grant will normally be renewable, includes tuition and fees, \$100 per semester book allowance (subject to change in response to cost variations), plus the possibility, upon application, of defraying costs of preparing theses or dissertations.

Application forms may be obtained from the Graduate School office. Applications must be received in the Graduate School office by March 15.

Loans

**National Direct Student Loan:** National Direct Student Loans are available from funds provided jointly by the federal government and the University. Graduate students may borrow up to \$2,500 per year not to exceed a cumulative total of \$10,000. These loans are based on demonstrated financial need as determined by the Financial Aid Office through the completion of an ACT Family Financial Statement. No repayments are due and no interest accrues until nine months after the student leaves school. The interest rate then becomes 3% per year and the borrower has up to ten years to repay the loan. The minimum repayment is \$30 per month.

**Illinois Guaranteed Loan Program (IGLP):** applications for this program are available from participating banks, credit unions, and savings and loan association.

A graduate student may borrow up to \$5,000 per class level not exceeding an accumulative amount of \$15,000 (an aggregate sum of both graduate and undergraduate loans.)

As a result of the New Middle Income Student Assistance Act (effective November 1, 1978) the federal government will pay the 7% interest on the loan while the student is in school. Repayment begins within nine months after the student graduates or ceases to be at least a half-time student, whereupon the annual percentage rate of 7% interest becomes the responsibility of the borrower.

Employment

**Graduate Assistantships:** Graduate Assistantships are available in most of the departments in the University.

In addition, assistantships are granted to men and women who serve as counselors in the University residence halls. In each instance, the graduate assistant is assigned responsibilities that contribute directly to the individual's professional career. - Applications for graduate assistantships should be made by the student to his/her departmental office. A full graduate assistantship provides a monthly stipend of \$300-\$350 per month for master's level students and \$380-\$450 per month for doctoral level students.

The registration fees for a graduate assistant (other than tuition, which is waived) are the same as fees assessed any other graduate student except that the \$26.00 insurance fee will be assessed every graduate assistant regardless of the number of hours being taken.

**College Work-Study Program (CWSP):** This federally-sponsored program enables those students with demonstrated financial need to *earn* a portion of their expenses while they are enrolled at Illinois State. The Federal Government pays 80% of the Work-Study student's earnings while the employer pays the balance. A student employed ten to twenty hours per week can usually expect to earn between \$950-\$1,900 during an academic year. The hourly rate is \$3.10 while the maximum hourly rate for student employees is \$3.75. These rates are subject to change according to state and federal legislation. Work-Study students may find jobs on campus (food service, Library, Union, departmental offices, etc.) or for non-profit off-campus agencies (hospitals, youth centers, counties, city, elementary or secondary schools, etc.). Work-Study positions are posted on job boards located outside the Financial Aid Office. Students may then go directly to the employer for an interview, and if hired, must complete state and federal withholding tax forms in the Payroll Office, Hovey 101. Work-Study employers must also complete and return a Student Employment Form for all students hired. As required by federal regulations, students are not permitted to earn more than their Work-Study eligibility.

**Regular Employment:** Those graduate students who desire to work on or off campus and who have not been awarded a National Direct Student Loan or College Work-Study funds are eligible for any part-time employment position on or off campus. Positions are posted on job boards outside the Financial Aid Office.

Veterans Services

The Office of Veteran Affairs is a part of the Financial Aid Office located in Hovey Hall, advising veterans and dependents on matters relating to benefits and also handling the correction of payment problems.

Certain dependents of deceased war veterans are entitled to educational benefits from the Veterans Administration. If a student seeks such benefits, contact should be made with the Veterans Affairs Area of the Financial Aid Office.

**Illinois Veterans Scholarship:** A veteran who was in the service one year or more may qualify for the Illinois Military Scholarship which pays tuition and some fees. To apply for the scholarship the veteran simply needs to bring a copy of the DD214 to the Financial Aid Office located in Hovey Hall.

**Veterans, G.I. Bill:** Benefits are available for any honorably-discharged veteran of the Army, Navy, Marine



Corps, Air Force or Coast Guard who (1) served continuously on active duty for at least 181 days ending after January 31, 1955, but before January 1, 1977, (2) served less than 181 days, if active duty was ended by a service-connected disability, and (3) serve presently in the Armed Forces, if they have had at least 181 days active duty. Benefits will be paid a maximum of forty-five months. Veterans who first entered active duty after December 31, 1976, must have contributed to the special training fund to be eligible for a maximum of thirty-six months of benefits. Contact the ISU Financial Aid Office for details.

**Survivor's and Dependents' G.I. Bill:** Children, spouses, survivors of veterans whose deaths or permanent total disabilities were service-connected in the Armed Forces after the beginning of the Spanish-American War may be eligible for benefits. Children of servicemen or service women missing in action or prisoners of war for more than 90 days also are eligible. Assistance is available to eligible children during the period which begins on the date of the eighteenth birthday or successful completion of high school, whichever comes first, and ends on reaching the twenty-sixth birthday.

## Student Life and Services

**University Handbook:** The University Handbook provides information on selected University policies and regulations set up by student-faculty committees and by faculty and administrative agencies and officers, under the authority of the Board of Regents governing Illinois State University. The **Handbook** also describes the structure and functions of the University and its agencies.

The students, faculty, and staff of Illinois State University constitute an academic community. The University affirms the Guidelines for Individual Action and the General Regulations as enunciated in the **Handbook**. Each member of the community should—when appropriate opportunities occur—reaffirm and communicate these statements, pointing out to those whose behavior is in violation that membership in this community implies adherence.

**Services for the Handicapped:** The Office of Services for the Handicapped's purpose is to aid handicapped and disabled individuals to become an integral part of the University community. Handicapped refers to those individuals who have a spinal cord injury, cerebral palsy, arthritis, alcoholism, drug problems, multiple sclerosis, spina bifida, cardio-vascular problems, asthma, epilepsy, sickle cell anemia, learning disabilities, hearing impairment, visual impairment, and many others. All information regarding a person and his/her handicap is confidential information.

Services include such things as: readers, interpreters, wheelchair pushers, tutors, brailist, and a list of persons interested in being attendants. Students who have a handicap or disability are encouraged to contact the Coordinator of Services for the Handicapped, Office of the Secretary, Hovey Hall 301, 309/438-8627 as early as possible.

**University Union and Auditorium:** The main purposes of the University Union and Auditorium (UUA) are to extend and complement the educational goals of the University and to provide educational programs, recreational opportunities and special services. The UUA plays an important role in providing facilities for students, faculty, alumni, and community friends of the University, to meet and interact in an atmosphere designed to enhance intel-

lectual and social growth. The UUA is the banquet, conference, and cultural center for the community.

UUA facilities include food services, a 3,457-seat auditorium, a 15,000 square foot ballroom, a Bowling and Billiards Center, meeting and multi-purpose rooms, an art gallery, a branch of the Bank of Illinois, and a 500-space parking lot. Scheduling arrangements may be made at the main office, located at the east end of the first level.

**Placement Service:** The University maintains an active program of placement for graduates and alumni and endeavors to keep constantly informed regarding the requirements of schools, businesses, and governmental agencies.

The Placement Service makes a constant effort to follow up graduates in order to assist them in locating positions of responsibility commensurate with their experience and success in the field. All graduates who desire to secure professional and financial advancements should each year bring their credentials up to date in the Placement Service.

**Research Services and Grants:** The University's Office of Research Services and Grants is an information and coordinating center for faculty and students who wish to secure financial support from sponsoring agencies to conduct research projects, training programs, and public service activities. Projects and programs funded by governmental agencies and Foundations constitute an important part of the University's involvement in research and development activities. This office serves as a catalyst to stimulate faculty and student interest in basic and applied research and community service programs. It provides help in locating appropriate funding sources for new academic endeavors; assists in developing and processing research proposals, and acts as liaison between the University and funding agencies.

**Alumni Services:** The Alumni Program at Illinois State University operates on the basis that when each person first enrolls at the University that a lifetime association will be as an alumnus. Therefore, the University through the Alumni Services Office will offer maximum services and activities to all ISU alumni for the remainder of their lives.

These include campus events such as Homecoming, Spring Experience, Alumni Appreciation Night, Madrigal Dinners, Shakespeare Summer Festival, class and departmental reunions, special conferences and seminars and other appropriate programs.

ISU is taken to alumni throughout Illinois, the United States and sometimes outside the U.S., by area-meetings which feature a variety of informative and entertaining programs.

Communications are kept with alumni primarily through quarterly mailings of the *Alumni News*. Additional mailings are sent announcing special events and activities.

The Alumni Services Office, located in Rambo House, is the campus headquarters for alumni. The official records for the growing numbers of Alumni, which exceeds 50,000, are maintained there.

The ISU Alumni Association is the organization to which all alumni are identified. The Alumni Board of Di-



rectors serves as the liaison body representing all alumni with the University.

**The ISU Foundation:** The Illinois State University Foundation is a not-for-profit corporation chartered by the State of Illinois for the sole purpose of serving Illinois State University. It does so by inviting, receiving, holding, investing, and administering gifts, grants and loans to support and enhance the regular programs of the University. In some instances new programs are initiated from these funds which are not available from the University's basic budget.

The Foundation encourages prospective donors to give financial assistance on an undesignated basis which enables the University to achieve greater efficiency by assigning these resources where most needed. However, gifts and grants may be designated for specific purposes which serve the overall interests of the University.

Bequests, charitable remainder trusts and other planned and deferred gifts are processed through the Foundation. All business matters and policies for the ISU Foundation are administered by an elected Board of Directors composed of alumni and other friends of the University.

All gifts made to the ISU Foundation are tax deductible as provided by law. Further information about the

Foundation may be obtained through the Office of Alumni Services and Development, Rambo House, at ISU.

**ISU Development Office:** The Development Office is located in Rambo House and is responsible for creating and carrying out a long-range program for expanding the amount of voluntary financial and other support for the University from alumni, parents, faculty, staff, interested businesses and industries and other friends of the University. Such voluntary support is used to provide scholarships, student loans, and research grants, equipment, and special purpose academic projects.

The financial assistance provided through the efforts of the Office of Development supplements the University's basic operating budget received from the State of Illinois and from student fees. All gifts from private sources intended for the use of Illinois State University are made to the ISU Foundation and enables the University to be a creative and progressive force in higher education. Private gifts are used primarily for programs not funded by the State.

The Development Office, in actively seeking voluntary support for the University, is carrying on the tradition established by the University's founders, whose solicitation of gifts of money and land made the establishment of the University possible.

# Fields of Study and Degrees Granted

## College of Applied Science and Technology

Agriculture.....	The M.S. is offered by the University of Illinois in cooperation with Illinois State University.
Corrections .....	M.A., M.S.
Health and Physical Education .....	M.A., M.S.
Home Economics .....	M.A., M.S.
Industrial Technology .....	M.A., M.S.

## College of Arts and Sciences

Biological Sciences .....	M.S., Ph.D.
Chemistry .....	M.S.
Economics .....	M.A., M.S., D.A.
English .....	M.A., M.S., D.A.
Foreign Languages .....	M.A.
Geography .....	M.A., M.S.
History .....	M.A., M.S., D.A.
Instructional Media .....	M.S., M.S. in Ed.
Mathematics .....	M.A., M.S., D.A.
Political Science .....	M.A., M.S.
Psychology .....	M.A., M.S.
School Psychology .....	M.A., M.S., M.S. in Ed.
Sociology .....	M.A., M.S.
Speech Communication .....	M.A., M.S.
Speech Pathology and Audiology .....	M.A., M.S.

## College of Business

Accounting .....	M.S.
Business (Finance and Law; Management and Marketing) .....	M.B.A.
Business Education .....	M.A., M.S.

## College of Education

Counselor Education .....	M.A., M.S., M.S. in Ed.
Curriculum and Instruction .....	Ed.D.
Educational Administration .....	M.A., M.S., M.S. in Ed., Ed.D., Ph.D.
Elementary Education .....	M.A., M.S., M.S. in Ed.
Reading .....	M.S. in Ed.
Secondary Education .....	M.S. in Ed.
Special Education .....	M.A., M.S., M.S. in Ed., Ed.D.
Supervision .....	M.A., M.S., M.S. in Ed.

## College of Fine Arts

Art .....	M.A., M.S., M.F.A., Ed.D.
Music .....	M.A., M.S., M.M., M.M.Ed.
Theatre .....	M.A., M.S., M.F.A.

## Graduate School

Western European Studies .....	M.A.
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A certificate of Advanced Study in Educational Administration is offered.

NOTE: Graduate degrees are not granted in the following departments, but course work is available as supplemental study or as electives:

Applied Computer Science  
Health Sciences  
Philosophy  
Physics



# Master's Degrees

## Credit Requirements

Masters' degrees are offered in the fields indicated above. The degree can be earned through one of three options. The student should carefully check with his/her academic adviser as not all programs contain all the options. Each option has a credit hour and a culminating requirement. The three options are as follows:

- (1) a 32-hour program that includes from four to six hours of credit in Master's Thesis 499;
- (2) a 32-hour program and a comprehensive examination;
- (3) a 39-hour program that designates a specific course, which includes synthesizing experiences involving research and exposition. (Presently available only in the Departments of Business Education and Administrative Services, Curriculum and Instruction, Educational Administration, Home Economics, Industrial Technology, and Mathematics, and applies only to the M.S. or M.S. in Ed. degree.)

The culminating requirement in each option requires mature application of skills and knowledge. In each, the student is expected to demonstrate an approved standard of scholarship and to provide evidence of his/her ability to think logically, to draw and defend conclusions, and to present the results in a creditable manner.

Once an option has been approved on the formal Plan of Study, it can be changed only with written approval of the student's academic adviser and the Dean of the Graduate School.

The student may not present credits in Master's Thesis 499 toward the degree unless his/her thesis is completed, approved by the Thesis Consultant for the Graduate School, and deposited in the Graduate School Office.

In master's programs a student must present, exclusive of Master's Thesis 499, not less than 15 hours of 400-level course work for the 32-hour program option. Not less than 18 hours of 400-level course work must be presented for the 36-or-39-hour program option.

The MBA in the College of Business is a 36-hour program with a capstone experience rather than a thesis or a comprehensive examination as part of the degree requirement.

Each department in which a degree program is offered may have requirements in addition to the minimums required by the Graduate School. Students should, therefore, note any special requirements for the Master of Arts, the Master of Business Administration, the Master of Science, the Master of Music, the Master of Music Education, and the Master of Science in Education under the departmental section of the catalog.

## General Degree Requirements

**Master of Arts:** The Master of Arts degree is awarded to a student who has completed an appropriate program, as designated in this catalog, provided the following

requirements are met: The student must have earned credit for a minimum of two years of a foreign language at the college level, or must demonstrate a reading knowledge of a foreign language. In some departments this must be French or German (see departmental regulations). The student also must have earned a minimum of 32 semester hours of credit in the humanities and social sciences in addition to work in foreign language. These requirements in foreign language, humanities, and social sciences may be met by satisfactory work at either the graduate or undergraduate level.

**Master of Business Administration:** Requirements for this degree are listed in the section devoted to the College of Business.

**Master of Science:** The Master of Science degree is awarded to students who complete a minimum of 32 hours within an approved plan of study and who complete either a thesis, comprehensive examination, or culminating experience. Refer to the departments for specific requirements.

**Master of Science in Education:** The Master of Science in Education degree may be awarded to students who have met the requirements as designated in the individual departments in the College of Education. A minimum of 32 hours within an approved plan of study is required and the completion of either a thesis or comprehensive examination or a 39-hour program with a culminating experience. The degree may also be awarded to students who have met specific requirements and is available only in the Instructional Media and School Psychology programs.

**Master of Music and Master of Music Education:** Requirements for these degrees are listed in the section devoted to the Music Department.

**Master of Fine Arts (Art and Theatre):** Requirements for these degrees are listed in the departments.

## College Teaching Program Requirements

This program is designed for students desiring an internship experience and a basic seminar concerning the nature of college teaching. Students should register for Internship in College Teaching 491 and Studies in College Teaching 474.

Students planning to teach in junior colleges requiring certification may need to take work beyond the 32 hours required for the degree. They should obtain information as to the certification rules of the state in which they desire to teach in order to include the necessary courses in their programs. The Department of Educational Administration and Foundations offers several courses concerned with the junior or community college.

## Secondary Teaching Program

Available only in the departments of the College of Education.



This master's program for secondary teachers assumes that the student will have completed undergraduate work for certification, and it is designed to provide a master's degree in the student's discipline, with appropriate professional electives. Students needing to meet certification requirements should plan to take such additional courses in education or psychology as will satisfy certification requirements in the states in which they desire to teach.

A student in the master's degree program for secondary teaching must take Curriculum and Instruction 410, Research Methodology and Statistics in Education I, or an approved alternate course offered by the student's own department. In addition six hours must be selected from the following courses:

Measurement and Evaluation in:

Education EAF 387 (3)

Curriculum Theory C&I 476 (3)

A graduate course in historical, social, or philosophical foundations of education

Principles of Guidance SED 360 (3)

Independent Study in Curriculum and Instruction C&I 400 (1-4)

Advanced Educational Psychology PSY 416 (3)

The remainder of the course work is taken in the student's major department. Other courses may be taken through prior approval of the major adviser. Students should note requirements listed with departmental offerings in this catalog and should consult advisers concerning their programs. Application of National Council for Accreditation of Teacher Education approval is being made.

## Residence Requirements

Except in the departments of Art, Foreign Languages, and Speech Pathology-Audiology, a candidate for a master's degree is not required to complete a residence requirement. For specific requirements of the above departments refer to the department program description.

## Time Limits

All graduate credit used in meeting requirements for the degree must be earned within a period of six years.

## Transfer and Extension Credit

On approval of the Dean of the Graduate School, a student holding a bachelor's degree from this University may present a maximum of eight semester hours of graduate credit from another college or university for use in meeting the requirements of the master's degree. A student who holds a bachelor's degree from another college or university may present a maximum of six semester hours of graduate credit earned at another college or university. An exception to this would relate to students who, under certain circumstances, would be allowed to present up to half the semester hours necessary for meeting the requirements of the master's degree from certain colleges or universities approved by the Dean of the Graduate School. The request must have the prior approval of the department in which the student wishes to enroll. A departmental evaluation of all courses presented will be necessary prior to the

approval of the Graduate Dean. A student who plans to take courses elsewhere is advised to have such work approved in advance to make sure that the courses are appropriate for the student's curriculum at Illinois State University.

Not more than six semester hours of graduate extension work from universities other than Illinois State University may be applied toward the master's degree. **For courses offered by Illinois State University, no differentiation is made between credits earned on campus and off campus, beginning with the Second Semester 1973-74.** Correspondence courses are not accepted toward a master's degree. Forms for requesting transfer of credit may be obtained in the Graduate Office, Hovey Hall.

## Academic Advisers

Each student has an academic adviser to assist in planning the student's work. This adviser should be consulted regarding the sequence of courses, the selection of electives, and the option of thesis, comprehensive examination, 36 hour option, or 39 hour option.

If a student follows a curriculum of specialization in a subject-matter field, the chairperson of the department concerned is the academic adviser unless another faculty member has been appointed by the chairperson.

An advisory committee is appointed for each student who writes a thesis. This committee is responsible for directing the thesis project, recommending the student or admission to candidacy for the degree, and conducting the final examination.

If the student chooses the option of a comprehensive examination, the academic adviser has the responsibility of recommending the individual for admission to candidacy and conducting the final examination.

## Program Approval Required

At registration, each student's program should carry the approval of the academic adviser. If a program does not have such approval there is no assurance that the courses can be used in meeting the requirements for the degree.

## Admission to Candidacy

To be admitted to candidacy for the master's degree the student must file a Plan of Study with the Dean of the Graduate School. This is done on forms obtained in the departmental office. At the time of filing all deficiencies must be removed and the candidate must meet the requirements of the University regarding scholarship. Normally the student applies for admission to candidacy when approximately half of the work toward the master's degree has been completed and must do so before the beginning of the semester or summer session in which the candidate expects to receive the degree. The Plan of Study must indicate whether the student has selected the comprehensive examination, thesis option, the 36-hour option, or the 39-hour option. If the student is offering a thesis as part of the work for the degree, the thesis proposal (see below) must have been filed with the Dean of the Graduate School.



## Thesis

The student electing the thesis option must register for from four to six hours of 499, Master's Thesis, as approved by the adviser. To register for 499 the student must actually be working on the subject under the direction of the adviser or thesis chairperson. **No grade will be given for the course but credit will be entered on the student's record at the time the approved thesis is deposited in the Graduate School Office. No credit for 499 may be offered for the master's degree by a student who does not complete a thesis.**

A thesis is written under the direction of an advisory committee appointed by the department chairperson and approved by the Graduate School. A student must be admitted to a degree program in the Graduate School before a thesis committee can be appointed.

The title, scope, and design of each proposed thesis must be approved by the student's advisory committee and the department chairperson. This approval must be received before a student may apply for admission to candidacy. In order to allow time for review, the student is required to file an approved **Proposal for Research** with the Dean of the Graduate School early in the semester preceding the one in which completion of the master's degree is expected. Forms for submitting the proposals are available in the Graduate Office.

There is no assumption of uniformity in thesis research. For example, a student may propose a creative project in art or music. In each instance, however, the completed project must meet approved standards of scholarship in the chosen field of study. In each instance there must be evidence of ability to think logically, to gather and organize material, to draw and defend conclusions, and to present the results of the foregoing procedures in a creditable manner.

### Registration for Thesis Work

A student on academic probation is not eligible to submit a thesis or equivalent for acceptance by the Graduate School.

Any student using the services of the academic staff or the facilities of the University must be registered for the period during which the services are rendered or the facilities are used.

After the Plan of Study and Proposal for Research have been approved and the thesis has begun a student is expected to register in course number 499 or 499.01 (Audit) each semester until the thesis is submitted to and formally approved by the Graduate School. (This requirement applies to the summer session only if the student is graduating at the end of that session.) Registration for this purpose may be in absentia. If circumstances prohibit continuing registration, a graduate student may request a leave of absence from the Dean of the Graduate School. Any student interrupting registration without obtaining a leave of absence will be withdrawn from the degree program. Any student requesting reinstatement in a degree program must direct such a request in writing to the Dean of the Graduate School. After a student has registered for four or six hours of 499, as determined by the department, he/she must register for one hour of 499.01 (Audit).

## Thesis Consultant

A thesis consultant approves all theses for the Graduate school before they are officially accepted. The student is urged to consult the thesis consultant of the Graduate School as soon as a preliminary draft of the first part of the thesis has been completed and has received approval of the thesis committee. At this time the thesis consultant will counsel the student regarding problems such as those related to format, footnotes, illustrations, and the use of language.

Before a thesis is deposited in the Graduate School Office, it is the responsibility of the thesis consultant of the Graduate School to examine the materials and to make sure that the report is neatly and correctly typed; is free of technical errors in format, footnoting, and bibliography; suitable for binding, and reflects credit upon the University and its graduate program. If the form of the thesis is not thus approved, the student must make whatever corrections are necessary and submit the materials again.

A descriptive note or annotation of not more than three hundred words must be approved by the advisory committee and must accompany the thesis when it is filed in the Graduate School Office.

After approval by committee members and the thesis consultant for the Graduate School, the student must file two unbound examination (carbon) copies of the thesis in the departmental office at least one week (seven days) before taking the oral examination. It is the student's responsibility to retrieve these examination copies shortly before the oral examination. The adviser has the responsibility of notifying members of the department and the Graduate School Office that the copies have been made available for examination and the time and place of the oral examination.

Following the examination the student must file the original copy and the second copy of the approved thesis, with any corrections suggested by the the orals committee, unbound, in the Graduate School Office. To be eligible for graduation a student must deposit the thesis in the Graduate School Office at least 10 days before the end of the semester. Theses filed after that date will be credited toward graduation the following semester or session.



## Examinations

Except for the 36- or 39-hour program options, an examination, oral, written, or both, must be taken by each student before receiving the master's degree. This examination covers the graduate work which the student is presenting for the degree. The time, place, and nature of the examination is determined by the student's advisory committee if the student selects the thesis option. The comprehensive examination is the responsibility of the department.



# Master of Fine Arts

## Department of Art

### Program Requirements

**Admission:** All regular criteria for admission to a terminal degree program in the Graduate School of the University will apply with the exception of the GRE requirement.

In the Department of Art the graduate student must be accepted by the Art Department. This will require the submission of a portfolio of the student's work, an example of scholarly writing, and three letters of recommendation. This material will be reviewed by the members of the studio faculty in the student's intended area of concentration. After final admission evaluations have been completed, Admissions and Records will notify the student of admission to the Master of Fine Arts Program.

**Academic Advisers:** The pre-candidacy MFA student selects a major adviser with the help of the Director of Graduate Studies. After the student is admitted to candidacy, the Chairperson of the Department, in consultation with the student and the student's major adviser, will select a graduate committee of at least three members. The chairperson of this committee must be from the student's major area of study. Members of this committee are appointed by the Graduate School following a joint recommendation of the student and chairperson of the student's graduate committee. This committee will review the student's graduate show and conduct and evaluate the student's written and/or oral comprehensive examination.

**Curriculum Requirements:** A minimum of 60 semester hours of graduate work beyond the bachelor's degree is required for the MFA in Art. For a detailed explanation of this requirement see information under departmental heading.

**Transfer and Residence:** Students who hold no earned Master's Degree can transfer no more than nine hours into this program. Completed Master of Arts and Master of Science degrees may be evaluated for transfer. Such evaluation will be based upon both the student's portfolio and academic record. However, this evaluation will not be made until the student has completed a minimum of six semester hours in the student's major studio area at Illinois State University. The student must complete 32 semester hours at Illinois State University and meet the residence requirements.

After receiving the bachelor's degree, a student seeking the Master of Fine Arts degree must complete at this University the equivalent of at least four semesters with at least two of them being full time, consecutive semesters. Summer sessions may not be counted toward the two consecutive semester requirement.

**Time Limitations:** All work for the Master of Fine Arts degree must be completed within six calendar years after the student begins study toward the degree. If the student does not complete the work within this time, additional examinations, or additional course work, or both, may be required in order to continue in the Master of Fine Arts Program.

**Admission to Candidacy:** To be admitted to candidacy, the student must present a grade average of B or better with no more than 5 hours of C, and a plan of study must be on file with the Dean of the Graduate School. The student may be admitted to candidacy after completing 24 hours of graduate study at Illinois State University or after two semesters of resident study.

The student will present a portfolio and any additional requested material to a review committee for evaluation. The student's committee will consist of the student's major adviser, the Director of Graduate Studies in Art, and at least two other faculty members with whom the student has worked or who have special interests or competencies in the student's area of study.

## Department of Theatre

The Master of Fine Arts is a 60-hour minimum program that emphasizes both practice and theory. Candidates must demonstrate proficiency in at least one of the following: acting, costume design, directing, playwriting, scene design, or creative drama; each candidate will be required to complete a three hour course that provides a supervised experience in college teaching; candidates must demonstrate the ability to understand the conceptual basis of their art and to articulate that understanding to others.

Program requirements are listed under Theatre course offerings.

## Certificate of Advanced Study

The College of Education offers the Certificate of Advanced Study in the area of Educational Administration. The purpose of this "sixth year" program is to permit students to specialize in educational administration. Completing appropriate course requirements and having proper field experiences may lead to advanced professional certificates and endorsements by the State Teacher Certification Board. These include the General Administrative, Chief School Business Official, Superintendents and School Service Personnel Certificate and the related supervisory endorsement.

Candidates for admission to the Certificate of Advanced Study program must: a.) hold a master's degree or equivalent from an accredited university, or be in the last semester of work leading to the master's degree, b.) have earned a minimum grade point average of 3.25 in work leading to the master's degree, and c.) present letters of recommendation of professional and academic competence. Admission involves approval by the department as well as the Graduate School.

After completion of a minimum of 9 hours and a maximum of 15 graduate hours, a student must apply for consideration as a candidate for certificate. At least 15 hours of course work will be required after admission to candidacy.

To be considered as a candidate the student must: 1.) have completed 9-15 semester hours of work with the CAS program at Illinois State University, b.) have a minimum graduate grade point average of 3.0 in course work completed, c.) have on file, with the department and Graduate School, a program of study approved by an adviser, and d.) have removed all deficiencies. A student who fails to meet the admission to candidacy requirements will not be al-

lowed to continue course work leading to the Certificate of Advanced Study.

**Time Limitation and Transfer of Credit:** All work for the Certificate of Advanced Study must be completed within six calendar years after the student is admitted to the program. Students who do not complete the work within this time may be requested to take additional course work to meet the certificate requirements.

A student seeking the Certificate of Advanced Study may petition to transfer from another institution, not more than six semester hours of graduate credit beyond the master's degree. The Dean of the Graduate School and the department chairperson must approve all transfer credit used in meeting the requirements for the Certificate of Advanced Study.

## Doctor of Arts

### Program Requirements

**Admission:** All regular criteria for admission to a terminal degree program in the Graduate School of the University will apply. A student seeking admission to a doctoral degree program must present letters of recommendation and must take qualifying examinations before being admitted to the program. Admission to the program ordinarily requires at least previous successful teaching experience and a level of training equivalent to a master's degree in the discipline they wish to enter. Candidates for admission who do not meet departmental requirements will be considered on an individual basis and may require a personal interview.

Admission involves approval by the department as well as the Graduate School.

**Academic Advisers:** The chairperson, with the approval of the Dean of the Graduate School, appoints an academic adviser for each student admitted to a doctoral program. The adviser is responsible for approving the student's program of courses with the advice of departments representing, when applicable, both major and minor fields. Normally this function is assumed by the chairperson of the student's dissertation committee after the committee has been named. At the time of each registration, the academic adviser files copies of the student's program with the department chairpersons concerned and with the Dean of the Graduate School.

**Required Courses and Fields:** A doctoral student may select both a major and a cognate field (or fields) of study. The selection of cognate field (or fields) must have the approval of the Dean of the Graduate School and the department directly involved. A cognate field may, under certain circumstances, be in the same department as a major field.

**Residency:** A Doctor of Arts student, after completing work for a master's degree, or its equivalent must complete at least one semester of full time residency. The normal residence requirement is one year; but commuter students who make continuing progress in the program may have the residence requirement reduced to one semester. Continuing progress for a commuter student is defined as taking one course each semester and a full load each summer session.

A student will not be considered in residence while employed full-time.

With departmental approval not more than six semester hours graduate extension work offered by universities other than Illinois State University may be applied to the doctoral degree. **For courses offered by Illinois State University, no differentiation is made between credits earned on campus and off campus, beginning with the Second Semester 1973-1974.** Such courses or seminars offered off campus must be taught by full or associate members of the Graduate Faculty of this university.

**Time Limitation:** The Doctor of Arts Degree is not granted on the basis of a student having successfully completed a certain number of courses, but after the candidate has demonstrated the required competency in the field.

All work for the Doctor of Arts degree, including the dissertation, must be completed within seven calendar years after the student is admitted to a Doctor of Arts program.

**Preliminary Examinations and Admission to Candidacy:** A doctoral student may be admitted to candidacy after: (a) passing a comprehensive preliminary examination, (b) a plan of study is submitted to the Graduate Dean and approved, and (c) receiving approval of the dissertation topic by the dissertation committee and the Dean of the Graduate School. The preliminary examination which may be written, oral, or oral and written will cover both major and minor fields. It will be concerned with (1) the student's professional competence in Higher Education and (2) assessment of the student's ability to apply his/her knowledge to problems of teaching and curriculum development in his/her area.

The Dean of the Graduate School appoints the examining committee which includes the student's academic adviser and a representative of the minor field (or fields).

**Dissertation for the D.A.:** Each candidate will be expected to complete a dissertation which is original and either (1) has relevance to the profession of college teaching, or (2) is an applied research topic which demonstrates a combination of scholarly, analytical, creative, and expository skills. The dissertation for the D.A. may involve the application of existing knowledge or theory to a practical educational problem or situation.

The Dean of the Graduate School appoints a dissertation committee of not less than five (5) members, one of whom shall be the member outside the department and represents the graduate faculty, the chairperson will act as the student's academic adviser. The topic of the dissertation must be approved by the committee and Dean of the Graduate School.

The student is not required to have the dissertation printed but will be required to pay the expense of microfilming for distribution by University Microfilms. The University may publish part or all of the dissertation.

**Registration for Dissertation Work:** Any student using the services of the academic staff or the facilities of the University must be registered for the period during which the services are rendered or the facilities are used.



Once admitted to candidacy in a doctoral program the student must continue registration in course number 599 or 599.01(Audit) in each subsequent semester until all requirements for the degree are completed. (This requirement applies to the summer session only if the student is graduating at the end of that session.) Registration for this purpose may be in absentia. The designation of a dissertation adviser should be approved as soon as possible after the conclusion of the semester in which a student first registers for 599. A student who fails to complete this procedure will not receive credit for accumulated hours. After the student has registered for a minimum of 15 hours of credit to be received for the dissertation, he/she should register for one hour of 599.01(Audit) until the dissertation is completed.

If circumstances prohibit continuing registration as stipulated above, a graduate student must request a leave of absence from the Dean of the Graduate School. Any student interrupting registration without obtaining a leave of absence will be withdrawn from the degree program. Any student requesting reinstatement in a degree program must direct such a request in writing to the Dean of the Graduate School.

A candidate for the doctorate who has completed course work must register for Dissertation 599 or 599.01(Audit) during the semester or summer session in which the final oral examination is taken, and in any semester or summer session in which the student holds an assistantship or fellowship.

**Final Examination:** This examination may be oral, written, or both, and may be concerned with more than the dissertation topic. The result of the examination will be determined by the dissertation committee but any member of the graduate faculty may attend.

## Doctor of Philosophy and Doctor of Education

### Program Requirements

**Admission:** A student seeking admission to a doctoral degree program must present letters of recommendation and must take qualifying examinations before being admitted to the program. The student may be required to come to the campus for an interview.

Admission of an applicant to a doctoral program will take account of personal and professional qualifications as well as scholastic records and measurement of academic ability. Admission involves approval by the department as well as the Graduate School.

**Academic Adviser:** The chairperson, with the approval of the Dean of the Graduate School, appoints an academic adviser for each student admitted to a doctoral program. The adviser is responsible for approving the student's program of courses with the advice of departments representing, when applicable, both major and minor fields. Normally this function is assumed by the chairperson of the student's dissertation committee after that committee has been named. At the time of each registration, the academic adviser files copies of the student's program with the department chairpersons concerned and with the Dean of the Graduate School.

**Required Courses and Fields:** A doctoral student may select both a major and a minor field (or fields) of study. The selection of minor field (or fields) must have the approval of the Dean of the Graduate School and the department directly involved. A minor field may, under certain circumstances, be in the same department as a major field.

**Residency:** A doctoral student (Ph.D., Ed.D.), after completing work for a master's degree or its equivalent, must be enrolled for at least two terms in residency in a 12-month period. A term is defined as an 18-week semester or an 8-week summer session. Residency is defined as successful completion of at least 9 semester hours of course work in an 18-week semester and 6 hours in the 8-week session.

Each student will file a declaration of residency for approval of the Department Chairperson and Graduate Dean prior to entering into residency and shall ask the Chairperson to verify the completion of the residency. The declaration shall specify: (1) the nature and extent of employment; (2) how the student will become involved in the professional activities of the department; and (3) accessibility of libraries, laboratories, and research tools necessary for doctoral level study in the respective discipline. Any exceptions to the above requirements must have the approval of the Department Chairperson and the Graduate Dean.

A student will not be considered in residence while employed full-time.

With departmental approval not more than six semester hours graduate extension work offered by Universities other than Illinois State University may be applied to the doctoral degree. **For courses offered by Illinois State University, no differentiation is made between credits earned on campus and off campus, beginning with the Second Semester 1973-1974. Such courses or seminars offered off campus must be taught by regular or associate members of the Graduate Faculty of this university.**

**Time Limitations:** The doctoral degree is not granted on the basis of a student having successfully completed a certain number of courses, but upon evidence of scholarly attainment as demonstrated especially by examinations and competence in research.

All work for the doctorate, including the dissertation, must be completed within eight calendar years after the student begins work beyond the master's level. If the student does not complete the work during this time, the student may be required to take additional qualifying examinations, or additional course work, or both, in order to continue in the doctoral program.

**Language Requirements for the Ph.D.:** All candidates for the Ph.D. must meet appropriate standards in oral and written English. In addition, the general requirement for the degree is a reading knowledge of two foreign languages chosen from French, German, Russian or other approved languages. In some fields the native language of a foreign graduate student may be offered in fulfillment of a foreign language requirement.

In all cases the department involved shall furnish evidence of its approval of a student's choice of language as

containing substantial body of knowledge pertinent to the field of inquiry and may furnish evidence that the candidate has proficiency in that language.

By petition, the student may substitute a more advanced knowledge of one language for a reading knowledge of two. In either case the Department of Foreign Languages has the responsibility of certifying that the language requirement has been met. A reading examination is given from an article or book in the candidate's field. The use of a dictionary is permitted. Advanced knowledge of a single foreign language is demonstrated by skills sufficient to give and to comprehend lectures in the field of specialization, to respond to questions relating to the specialization as well as to read the language without the aid of a dictionary. Language examinations are given according to a schedule published in the annual calendar.

The Graduate School permits the substitution of other research tools or competencies for both of the foreign language requirements, where such substitutions are particularly appropriate to the field involved. Departmental alternatives are described with departmental offerings in this catalog.

**Research Tools for the Ed.D.:** Ed.D. candidates who are not required to offer foreign languages as research tools are expected to have developed other competencies appropriate to doctoral candidates in their fields. These may involve proficiencies in such areas as statistics, measurement and evaluation, research techniques, and experience in field survey work or special course work.

As in the case with ability to use a foreign language, some research skills may be the product of undergraduate and early graduate work. The concern of the Graduate School is that the doctoral candidates be able to understand the research work of leading scholars in their fields, that they master the processes which enable them to do productive research themselves, and that they be able to report the research findings clearly to others.

**Preliminary Examinations and Admission to Candidacy:** A doctoral student may be admitted to candidacy after: (a) meeting the foreign language requirement or alternate approved program, (b) passing a comprehensive preliminary examination, and (c) receiving approval of the dissertation topic.

The comprehensive preliminary examination is written, or, written and oral. It covers both major and minor fields. It also is concerned with the student's professional competence and ability to undertake independent research.

The Dean of the Graduate School appoints the examining committee which includes the student's professional competence and ability to undertake independent research.

**Dissertation for the Ph.D. and Ed.D.:** The doctoral candidate is encouraged to select a dissertation topic early in the work and to plan course work with the advice of the dissertation committee. The Dean of the Graduate School appoints a dissertation committee of not less than three members, the chairperson of which acts as the student's academic adviser. The topic of the dissertation must be approved by the Dean of the Graduate School as well as this committee. The entire committee shares responsibility

for the dissertation although the chairperson may work more directly with the student.

The dissertation for the Ph.D. must involve independent research and an original contribution to knowledge. While the dissertation for the Ed.D. may meet the above requirements, it is customary to allow greater flexibility for the Ed.D. dissertation, so that it may, for instance, involve the application of existing knowledge or theory to a practical educational problem or situation.

The dissertation must be approved by the dissertation committee, as well as the final examination committee appointed by the Dean of the Graduate School. This committee represents the University at large.

The student is not required to have the dissertation printed but will be required to pay the expense of microfilming for distribution by University Microfilms. The University may publish part or all of the dissertation.

**Registration for Dissertation Work:** Any student using the services of the academic staff or the facilities of the University must be registered for the period during which the services are rendered or the facilities are used.

Once admitted to candidacy in a doctoral program the student must continue registration in course number 599 or 599.01(Audit) in each subsequent semester until all requirements for the degree are completed. (This requirement applies to the summer session only if the student is graduating at the end of that session.) Registration for this purpose may be in absentia. The designation of a dissertation adviser should be approved as soon as possible after the conclusion of the semester in which a student first registers for 599. A student who fails to complete this procedure will not receive credit for accumulated hours. After the student has registered for a minimum of 15 hours of credit to be received for the dissertation, he/she should register for one hour of 599.01 (Audit) until the dissertation is completed.

If circumstances prohibit continuing registration as stipulated above, a graduate student must request a leave of absence from the Dean of the Graduate School. Any student interrupting registration without obtaining a leave of absence will be withdrawn from the degree program. Any student requesting reinstatement in a degree program must direct such a request in writing to the Dean of the Graduate School.

A candidate for the doctorate who has completed course work must register for Research 599 or 599.01(Audit) during the semester or summer session in which the final oral examination is taken and in any semester or summer session in which the student holds an assistantship or fellowship.

**Final Examination:** The Dean of the Graduate School appoints a committee which is responsible for the final examination. This examination may be oral, written, or both, and is concerned with more than the dissertation topic. The committee includes the student's academic adviser, as well as other members of the graduate faculty.



# COLLEGES, DEPARTMENTS, AND COURSE OFFERINGS

The courses listed below are available in all graduate degree programs, except that the 500-level courses are normally restricted to terminal degree programs, such as the D.A., Ed.D., M.F.A., and Ph.D.

## General Courses

### 389 SELECTED STUDIES

1-6 sem. hrs.

Course work not offered within the framework of existing departmental courses. The topic to be covered will be identified in the class schedule booklet each semester. Experimental courses and courses cutting across the departmental lines may be offered as selected studies.

### 393 WORKSHOP

1-6 sem. hrs.

Advanced workshop for juniors, seniors, and graduate students. Credit will be given by the department offering the workshop.

### 397 INSTITUTE IN

1-9 sem. hrs.

Federal and state sponsored institutes or similar short term programs requiring treatment of subject matter of a special nature or for special groups.

### 399 ARTS AND SCIENCES MULTI-DISCIPLINARY SEMINAR

3 sem. hrs.

Intensive study in selected topics of a multi-disciplinary nature to be offered cooperatively by two or more departments.

### 400 INDEPENDENT STUDY

1-4 sem. hrs.

A maximum of six hours may be applied toward a master's degree. Intensive study in a special area of the advanced student's interest under a qualified member of the faculty. Each individual investigation is to culminate in a comprehensive written report and/or examination. Open only to graduate students who have completed considerable work in a degree program, who are in good academic standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty member, the student's adviser, and the department chairperson is required prior to registration.

### 489 ADVANCED STUDY

1-6 sem. hrs.

Advanced course work not offered within the framework of existing departmental courses. The topic to be covered will be identified in the class schedule booklet each semester. Experimental courses and courses cutting across departmental lines may be offered as advanced studies.

### 497 INTRODUCTION TO RESEARCH METHODOLOGY

3 sem. hrs.

Selection of a research problem, collection of data, types of research, the research report, and use of the library in connection with the research problem. Emphasis

on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Enables the student to become an intelligent consumer of the products of educational research.

### 498 PROFESSIONAL PRACTICE

1-12 sem. hrs.

All departments utilizing 498 Professional Practice must have a curriculum proposal covering 498 approved by the Graduate Curriculum Committee prior to utilization.

Supervised work experience in local, state, national, and international business, agencies, institutions, and organizations. The experience is planned, administered, and supervised at the departmental level and coordinated through the Office of Professional Practice or, if the site is in an educational agency or institution, through the Office of Clinical Experiences. Written objectives and modes of evaluation shall be approved by the faculty supervisor and department chairperson prior to the beginning of the semester. In a degree program, Professional Practice 498 cannot constitute more than 20% of the hours applied for graduation. Open only to graduate students who have completed considerable work in a degree program, who are in good academic standing, and who have demonstrated ability to profit from professional practice experience.

### 499 MASTER'S THESIS

1-6 sem. hrs.

A student electing the thesis option must take from four to six hours of 499. While registration beyond six hours may be permitted for the convenience of the student, he/she may not count more than a total of six hours of 499 among the 32 required for the master's degree.

### 500 INDEPENDENT STUDY

1-4 sem. hrs.

A maximum of twelve hours may be applied toward the Master of Fine Arts, and the Doctoral degree. Intensive study in a special area of the advanced student's interest under a qualified member of the faculty. Each individual investigation is to culminate in a comprehensive written report and/or examination. Open only to graduate students who have completed considerable work in a degree program, who are in good academic standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty member, the student's adviser, and the department chairperson is required prior to registrations.

### 589 ADVANCED DOCTORAL STUDY

Doctoral-level course work under a qualified member of the graduate faculty, in subject matter not offered within the framework of existing departmental courses. The topic to be covered will be identified in the class schedule booklet each semester.

### 599 DOCTORAL RESEARCH

Variable Credit

Research involving the gathering of data to form the basis of the Doctoral dissertation.







# COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY

The Departments of Agriculture; Applied Computer Science; Corrections, Health, Physical Education, Recreation, and Dance; Health Sciences, Home Economics; and Industrial Technology constitute the College of Applied Science and Technology. Undergraduate and graduate programs of the College are designed to prepare students for positions as professional educators in all types of educational institutions as well as for non-teaching vocational, professional and technical careers.

## AGRICULTURE

**Chairperson:** George W. Forgey. Office: 150 Turner Hall.

**Teaching Staff:** M. Balbach, B. Bristol, W. Chudimsky, A. Culver, G. Forgey, F. Fuess, R. Henry, K. James, C. Moore, J. Sagebiel, M. Turner, H. Woods.

### Programs Offered

The Department of Agriculture participates in an inter-institutional M.S. Program in Agriculture with the University of Illinois. The primary purpose of this cooperative program is to provide an opportunity for professional workers in the field of Agriculture living in the Normal and Bloomington area to pursue advanced degrees at the University of Illinois. For details of this program contact the Department of Agriculture at Illinois State University.

### Courses

#### 302 SPECIAL PROBLEMS IN AGRICULTURE

1-3 sem. hrs.

Special work in research interests of student and staff. Projects must be approved by the staff member and the chairperson of the department. Prerequisite: Comprehensive maj, maj, or min in AGR, consent of instructor and department chairperson. May be repeated. Max. 6 hours.

#### 303 SEMINAR IN AGRICULTURE

1 sem. hr.

Senior or graduate standing.

#### 310 RURAL APPRAISALS

3 sem. hrs.

Principles, procedures, and terminology for evaluating rural property; preparation of appraisal reports as currently prepared by qualified and experienced rural appraisers. Field trips. Prerequisites: AGR 216 or AGR 318 or ACC 131 rec., plus an academic background in agriculture.

#### 314 GRAIN MARKETING

2 sem. hrs.

Economics and marketing problems in grain industry. Special emphasis on futures marketing. Prerequisite: AGR 214 req.

#### 316 LIVESTOCK MARKETING

2 sem. hrs.

Economic principles applied to marketing of livestock and livestock products. Consideration given to producers, processors, and distributors. Prerequisite: AGR 214 req.

#### 318 AGRICULTURE FINANCE

3 sem. hrs.

The principles of agriculture finance including the capital requirements, the sources of credit, and the optimum uses of capital. Prerequisite: AGR 216 or ACC 131.

#### 340 EQUIPMENT FOR PRODUCING AND HANDLING AGRICULTURAL PRODUCTS

3 sem. hrs.

Selection, design, operation, adjustment, and maintenance of machinery and equipment utilized in producing, storing, and processing agricultural products. Prerequisite: AGR 130 req. Lecture and Laboratory. Field trips.

#### 345 AGRICULTURAL ACCIDENT PREVENTION

3 sem. hrs.

Major problems of accident causation and prevention applicable to agriculture and the need for farm safety education. Materials charge. Also offered as IT 373.

#### 352 TURF MANAGEMENT

3 sem. hrs.

Principles and practices used in management of turf grasses, residential and recreational turf. Prerequisite: AGR 150 or BSC 121 req.

#### 353 LANDSCAPE DESIGN AND CONSTRUCTION

3 sem. hrs.

Problem approach to landscape design and construction. Site surveys and analyses. Plant selection and preparation of functional designs. Lectures and practice in landscape design. Prerequisites: AGR 252 and 255 req.

#### 355 PLANT BREEDING

3 sem. hrs.

Breeding procedures and techniques used in developing new varieties of field crops. Prerequisite: AGR 272 req.

#### 356 PLANT PROPAGATION

3 sem. hrs.

Basic principles and commercial practices involved in sexual and asexual propagation of agricultural plants. Prerequisite: AGR 150, or BSC 121 req. Lecture and laboratory.

#### 357 SOIL FERTILITY AND FERTILIZERS

4 sem. hrs.

Fundamental concepts of soil fertility and fertilizer manufacturing. Plant nutrition, factors affecting plant growth, soil-plant relationships, and macro- and micro-nutrients. Prerequisite: AGR 157 req. Lecture and laboratory. Field trips.

#### 360 CROP CONDITIONING AND STORAGE

3 sem. hrs.

A comprehensive study of the chemical, physical, and physiological aspects of crop conditioning and storage. Major emphasis will be placed on soybeans and grain crops but other agricultural crops and products will be considered. Prerequisites: AGR 250 and 5 hrs. CHE req.

**372 LIVESTOCK BREEDING****3 sem. hrs.**

Reproduction and principles of heredity and their application to livestock breeding; population genetics, inbreeding, relationship, outbreeding, and selection. Prerequisite: AGR 272 or BSC 319 req.

**373 REPRODUCTIVE PHYSIOLOGY AND MILK SECRETION****3 sem. hrs.**

Reproduction in livestock, anatomy of the reproductive and hormonal systems, physiological and hormonal aspects of lactation. Prerequisite: AGR 170 req.

**374 DAIRY CATTLE FEEDING AND MANAGEMENT****3 sem. hrs.**

Feeding and management of dairy cattle as they relate to an economic dairy farm operation. Prerequisite: AGR 274. Field trips.

**375 ANIMAL NUTRITION****3 sem. hrs.**

Science of animal nutrition; special attention to recent discoveries pertaining to the protein, mineral, and vitamin requirements of livestock. Prerequisites: AGR 170, 171 req. Field trips.

**396 METHODS AND PROCEDURES IN AGRICULTURAL EDUCATION****5 sem. hrs.**

Procedures in planning, conducting, evaluating, and teaching preparation necessary for a complete program in agricultural education. Field trip charge. Prerequisite: C&I 200 (6 hrs) or 215. Includes clinical experiences.

**401 ORGANIZING AND TEACHING AGRICULTURAL MECHANICS****2 sem hrs.**

Developing competencies in planning, teaching, and evaluating a total high school agricultural mechanics program. Emphasis on facilities, instructional materials, and safety. Prerequisites: Agricultural Education major, cons inst.

## APPLIED COMPUTER SCIENCE

Chairperson: Michael J. Powers. Office: 133B Stevenson Hall.

**Teaching Staff:** R. Brewer, B. Crissey, I. Karp, M. Powers.

**Note:** Graduate degrees are not granted at this time in the Applied Computer Science Department, but the course work is available as supplemental study or as electives for other degree programs.

### Courses

**363 INTRODUCTION TO SYSTEMS DEVELOPMENT****3 sem. hrs.**

Development of computerized information systems emphasizing structured design and the project leader's role in organization and control of the development process. Prerequisite: a two-semester sequence in programming language.

**364 SOFTWARE DESIGN****3 sem. hrs.**

Design methodologies and implementation strategies in information system software development. Emphasizes psychological aspects of development, accurate reflection of the problem, correctness, reliability, maintainability. Prerequisite: ACS 363.

**368 TOPICS IN SYSTEMS DESIGN****3 sem. hrs.**

Advanced topics in systems analysis, design, and development. Prerequisites: ACS 363 and 364.

**372 EXTERNAL DATA STRUCTURES****3 sem. hrs.**

External file design, processing direct and indexed files, IBM utilities and sort/merge, basic concepts of IBM 370 operating systems, and extensive study of JCL. Prerequisite: ACS 169 or equivalent required; ACS 272 strongly recommended.

**376 INTRODUCTION TO ONLINE SYSTEMS****3 sem. hrs.**

Design, development and implementation of online system applications with studies in teleprocessing concepts, hardware, man-machine interaction, networking and distributed processing. Prerequisites: ACS 363 and 372, or concurrent registration.

**378 DATABASE PROCESSING****3 sem. hrs.**

Database software design philosophies: hierarchical, network, relational. Study of major commercial packages. Implications for systems development and management of the information resource. Prerequisites: ACS 372 required; ACS 278 recommended.

**383 PRINCIPLES OF OPERATING SYSTEMS****3 sem. hrs.**

Functional criteria for operating system design. Job management, task management, data management, resource allocation, and dump and trace facilities. Prerequisites: ACS 283, 284.

**391 DIRECTED PROJECT IN APPLIED COMPUTER SCIENCE****1-6 sem. hrs.**

By application only. Prerequisites: ACS 363 and 372 or equivalent and consent of ACS chairperson. May be repeated to a maximum of eight hours.

## CORRECTIONS

**Chairperson:** Robert G. Culbertson. Office: 401 Schroeder Hall.

**Teaching Staff:**—A.F. Carr, S. Cox, R. Culbertson.

### Master's Degree in Corrections

The Department of Corrections offers a program leading to the M.A. or M.S. degree. The primary goal of the program is to provide the practitioner skills directly applicable to employment agencies. Specifically, students completing the Master's degree in Corrections will have the skills to: 1) undertake supervisory responsibility for administrative units containing entry-level practitioners and volunteers; 2) plan and write grants and implement special demonstration projects; 3) provide technical evaluative services to correctional administrations to enhance program decisions based on valid research findings; 4) work directly



and independently with correctional clients in helping relations in a variety of settings--prisons, juvenile institutions, youth service bureaus, court services, post-release programs, alcohol and drug programs and ex-offender employment projects; 5) participate in staff training programs under the overall supervision of training directors; 6) serve as administrative assistants to administrators of correctional agencies; and 7) comprehend, critically, ongoing theoretical and research developments in criminal justice, and see their applicability within their particular agency settings.

The curriculum is flexible permitting students to pursue coursework largely reflective of their individual career needs and goals. This has been accomplished by providing a small core of basic courses required of all students and a large number of courses to be elected from offerings in the Department of Corrections and other University departments in consultation with departmental advisors.

### Program Majors and Specializations

A student may specialize in one of the following areas: organization and management of correctional institutions; community-based corrections; correctional research and evaluation; helping approaches to correctional clients; higher education and staff training roles for corrections.

### Course Requirements for the Degree

A minimum of 32 credit hours of coursework is required of all students in order to qualify for a Masters degree in Corrections.

### Thesis or Comprehensive Examination Option

A student may elect to do a thesis for which he/she may receive from four to six hours of credit; or he/she must elect to do 32 hours of course work and take a comprehensive examination.

### Internship in Corrections

Each student working towards a Master's in Corrections is required to complete six credit hours of internship in a correctional setting related to his/her area of specialization. This translates into eighteen clock-hours weekly of field-related experience. The internship is rooted in the conceptual base of the program, namely, the objective of enabling advanced-level professionals to meet the needs of the correctional field. It will involve placement in agencies which agree to provide supervised experience at a level corresponding to the student's academic development and career goals. Inasmuch as internship is viewed as an opportunity to integrate concepts acquired on campus with the practical problems of the corrections field, students will normally not be approved for enrollment in internship prior to completion of a minimum of sixteen graduate hours. It is anticipated that, in the case of individuals with occupational experience in corrections, the Department may agree to waive some or all of the internship requirement. In such instances, alternative coursework will be substituted, with the approval of the student's faculty advisor.

For additional information contact the Chairperson, Department of Corrections, Illinois State University.

### 300 EVALUATIVE RESEARCH OF PROGRAMS IN CRIMINAL JUSTICE

3 sem hrs.

Course enables student to analyze research in criminal justice and systematically evaluate the process and outcome of programs in the field of criminal justice.

### 301 JUVENILE JUSTICE

3 sem. hrs.

The processing and treatment of juvenile offenders. Examines the organization, operation, and goals of the individuals, agencies, and institutions that work with youthful offenders. Prerequisites: COR 101 or cons. inst.

### 302 CORRECTIONAL CASE LAW

3 sem. hrs.

An intensive examination of case law in the field of corrections and focuses on the historical development of rights of probationers, those incarcerated, and parolees. Prerequisites: COR 101, 204.

### 303 POLICE ATTITUDES AND BEHAVIOR

3 sem. hrs.

An analysis of police attitudes and behavior focusing on occupational roles and police social systems. Prerequisites: COR 101.

### 322 CORRECTIONAL COUNSELING

3 sem. hrs.

Development of interpersonal communication and decision-making skills for direct intervention with correctional clients. Prerequisites: COR 201, 203 and cons inst.

### 360 ISSUES IN CRIMINAL JUSTICE

1-4 sem. hrs.

A critical and analytical study of a contemporary issue or controversy in the field of criminal justice. May be repeated once if topic and content are different.

### 400 INDEPENDENT STUDY

1-4 sem hrs

### 401 CORRECTIONAL THEORY

3 sem. hrs.

An intensive study and critical analysis of correctional theory; current correctional theories and their contributions to contemporary correctional processes and procedures.

## HEALTH, PHYSICAL EDUCATION, RECREATION, AND DANCE

**Chairperson:** Russell D. Gorman. Office: Horton Fieldhouse 203A.

**Teaching Staff:** B. Bass, J. Collie, V. Crafts, P. Dohrmann, C. B. Eichstaedt, R. Gorman, C. Imel, M. Jones, W. Kauth, B. Keough, R. Koehler, R. Liverman, G. L. Mabry, R. McAdam, R. Metcalf, A. Nolte, R. Raus, J. Razor, J. Scott, P. Scott, B. Smith, K. Strand, T-K. Tchong, W. Truex, P. Wang, M. Weisbecker, R. Weller, B. Wilson, D. Workman.

### Programs Offered

The HPERD Department offers programs leading to the following degrees: M.A. and M.S. in Health and Physical Education. Students seeking an Ed.D. in Educational Administration may, with approval, have a concentration with credit hours in HPERD. All students seeking an advanced degree in Health and Physical Education should have an

adviser assigned for course selection and program development.

Graduate students in HPERD working on a Master's Degree must complete at least 18 semester hours in HPERD excluding thesis credit. All students have the option of completing a thesis, including creative ones, or pursuing a non-thesis, comprehensive examination. Students who select the comprehensive examination must include at least 2 semester hours of credit in HPR 400, Independent Study. It should be noted that approval is required for HPR 400 and HPR 499 Thesis. Students should confer with the Graduate Director HPERD prior to registration.

All graduate students seeking an advanced degree in HPERD will take a minimum of 6 semester hours as an HPR Graduate Core requirement: Introduction to Research and Philosophy in the respective sequence. In addition, all graduate students will select a sequence: Physical Education, Health Education, Recreation or Dance. Study concentrations are offered in Physical Education and Recreation. Additionally, other concentrations may be developed through faculty-student advisement, utilizing interdisciplinary graduate offerings.

**Core Requirements**

The following courses are required for all master's degrees: HPR 497 Introduction to Research 3 sem. hrs. HPR 422 Philosophy of Physical Education or the Philosophical Foundations course of the sequence: Physical Education-422 Philosophy of P.E. Dance-469 Movement Phenomenology .....3 sem. hrs.

**Sequence Requirements:**

Students who select a sequence must complete the following requirements for the specific sequence and/or concentrations:

**Physical Education Sequences:**

A minimum of 15 semester hours of courses identified as physical education courses (excluding HPR 442, 497, 499 credits and 2 semester hours of 400).

**Concentrations in Physical Education:**

To complete the concentration, no less than three courses or a minimum of 8 hours must be taken. Students with unusual interests and/or needs may build and complete an individualized contract concentration, provided appropriate approval is obtained.

**Adapted Physical Education (Suggested):**

HPR 383 Adapted P.E. ....3 sem. hrs.  
HPR 386 P.E. and Rec for Handicapped...2 sem. hrs.

**Athletic Training (Suggested):**

HPR  
485 Advanced Seminar in Athletic Training.....2 sem. hrs.  
HPR 393.34 Sports Medicine III.....2 sem. hrs.  
HPR 488 Advanced Lab./Clinical Practice in Ath.  
Trng.....3 sem. hrs.  
HPR  
481 Work Metabolism (3) or HPR 482 (2).....2-3 sem. hrs.

**Administration Teaching (Suggested):**

HPR 401 Curriculum Development in Physical Education .....3 sem. hrs.  
HPR 441 Topics in Administration of P.E. .3 sem. hrs.

Select 3 HPR courses from the following areas, with at least

one course from each area: (1) Administration-HPR 403, HPR 424.  
(2) Teaching-HPR 304, HPR 447, HPR 349.

**Coaching (Suggested):**

HPR  
351 Exercise Physiology or HPR 481 .....3 sem. hrs.  
HPR 384 Introduction to Athletic Training or HPR  
387 .....3 sem. hrs.  
HPR 304 Teaching of Sports or HPR 349 ..3 sem. hrs.

**Scientific Foundations (Suggested):**

HPR  
351 Exercise Physiology or HPR 349 .....3 sem. hrs.  
HPR 481 Work Metabolism .....3 sem. hrs.  
HPR 482 Mechanical Analysis .....2 sem. hrs.

**Health Education Sequence**

Students in the Health Education Sequence must complete the graduate core (6 hrs.) for health education, plus a concentration (12 hrs.) in departmental health education courses planned with an adviser. Elective courses are interdisciplinary and supportive of the concentrations.

**Recreation Sequences**

Students in these sequences must complete the graduate core (6 hrs.), one option (9 hrs.), plus one elective course (3 hrs.) in HPERD excluding thesis.

**Administration:**

HPR  
475 Administration of Leisure Services .....3 sem. hrs.  
HPR  
472 Camp Administration or HPR 371 .....3 sem. hrs.

**Therapeutic Recreation:**

HPR  
370 Recreation for Special Population .....3 sem. hrs.  
HPR 483 Advanced Correctives .....3 sem. hrs.

**Outdoor Recreation:**

HPR 371 Park & Resource Management...3 sem. hrs.  
HPR 472 Camp Administration .....3 sem. hrs.

**Dance Sequence:**

Students are required to take the following courses and others as approved by the major adviser.

HPE 367 Dance Administration and Curriculum Design .....3 sem. hrs.  
HPE 460 Seminar in Dance .....2 sem. hrs.

Elective hours for each sequence are dependent upon student choice of thesis or non-thesis option. Essentially, 8-12 hours of 300-400 level courses related to the sequence are planned with an adviser.

University requirements for Master's degrees are listed elsewhere in this catalog.

**Courses**

**304 TEACHING OF SPORTS**

**3 sem. hrs.**  
Optimal learning in human movement: content, teacher behavior, situational conditions, analysis of sports, instructional approaches, application and research.

**321 CURRENT TRENDS IN ELEMENTARY PHYSICAL EDUCATION**

**3 sem. hrs.**  
Discussion of current trends in elementary physical education. Identification of trends in elementary school affecting physical education programs. Prerequisites: HPR 221 or 222 or equivalent experiences.



### **340 COMPARATIVE HISTORY OF SPORT AND PHYSICAL EDUCATION**

**3 sem. hrs.**

Relationship, from ancient to contemporary times, of sport physical education to economic, political, social, educational, and religious factors.

### **347 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION**

**3 sem. hrs.**

Analysis of motor performance, using objective tests, subjective ratings, and achievement tests. Construction and evaluation of knowledge tests. Use of statistical concepts for interpreting test scores.

### **349 APPLIED MOTOR LEARNING**

**3 sem. hrs.**

Perceptual-motor development and performance. Application of research, learning theories and assessment tools; maturational, perceptual, and performance factors.

### **351 EXERCISE PHYSIOLOGY**

**3 sem. hrs.**

Utilization of human physiology in teaching physical education. Effects of exercise on body systems and physical efficiency tests and studies.

### **360 SPECIAL METHODS IN DANCE II**

**4 sem. hrs.**

Supervised clinical experiences in teaching dance to secondary school, studio, and agency populations; selection of materials and instructional strategies for these groups. Prerequisites: HPR 260 or 158 or cons. of inst.

### **361 HISTORY AND PHILOSOPHY OF DANCE I**

**3 sem. hrs.**

History, philosophy, and development of dance as a social and cultural medium from primitive times through the 17th century.

### **362 HISTORY AND PHILOSOPHY OF DANCE II**

**3 sem. hrs.**

History, philosophy, and development of dance from the 18th century to the present. Approaches, styles, and contributions of leading dance personalities.

### **363 PRINCIPLES OF DANCE PRODUCTION**

**3 sem. hrs.**

Principles of costuming, lighting, accompaniment, and related aspects in the production of dance performances.

### **365 TEACHING OF FOLK FORMS OF DANCE**

**2 sem. hrs.**

Methods of teaching folk and social dance forms in the secondary school, college, and recreational situation. Prerequisite: Previous experience in the social forms of dance (social, square, folk).

### **367 DANCE ADMINISTRATION AND CURRICULUM DESIGN**

**3 sem. hrs.**

Techniques for the administration of dance in public schools, studios, universities, and community agencies; curriculum development and evaluation procedures for these groups; management skills for the arts. Prerequisite: HPR 260.

### **368 DANCE COMPOSITION-EXPERIMENTAL APPROACHES**

**2 sem. hrs.**

Progressive experiences in individual and group composition; in design, rhythm, and dynamics, in various approaches to choreography. Prerequisite: Previous experience in modern dance.

### **369 DANCE FOR CHILDREN**

**2 sem. hrs.**

Methods and materials in traditional and creative activities; interrelationships of dance with other arts. Prerequisite: HPR 162, 221, or 222.

### **370 RECREATION FOR SPECIAL POPULATIONS**

**3 sem. hrs.**

Materials for leadership techniques for conducting recreation for special groups, including mentally and physically handicapped, aged juvenile delinquents, armed forces, prisons, and hospitals. Prerequisite: HPR 271.

### **371 PARK AND RESOURCE MANAGEMENT**

**3 sem. hrs.**

Planning and operational procedures in acquiring, developing, and maintaining recreation and park area facilities. Prerequisite: HPR 271 or cons. inst.

### **372 CAMP EXPERIENCE WITH PHYSICALLY HANDICAPPED**

**3 sem. hrs.**

Counseling experience in a summer camp for physically handicapped children. Conferences on planning of daily activities, equipment, and general program. Prerequisite: Consent of chairperson of SED and chairperson of HPR. May be repeated.

### **373 WORKSHOP IN RECREATION AND CAMPING**

**3 sem. hrs.**

Preparation of materials in crafts, music, story telling, dramatics, games, and sports, with cooperative work among various departments and organizations.

### **374 OUTDOOR EDUCATION**

**3 sem. hrs.**

Principles and policies underlying school-related programs and materials in outdoor education. Prerequisite: HPR 271.

### **375 RECREATION AND PARK ADMINISTRATION**

**3 sem. hrs.**

Administrative functions in the operation of organized recreation and leisure delivery systems.

### **382 SENSORY MOTOR EDUCATION OF TRAINABLE MENTALLY HANDICAPPED**

**3 sem. hrs.**

Physical education activities appropriate for the trainable mentally handicapped child. Related appropriate teaching techniques are emphasized. Clinical experiences.

### **383 ADAPTED PHYSICAL EDUCATION**

**2 sem. hrs.**

Methods, materials, and activities appropriate for adapted physical education programs in elementary and secondary schools. Prerequisite: HPR 182 or 351.

### **384 INTRODUCTION TO ATHLETIC INJURIES**

**3 sem. hrs.**

Responsibilities, qualifications, and limitations of a trainer-coach; classification of injuries and general evaluation, taping, bandaging and treatment methods. Prerequisite: HPR 182 or consent inst.

### **385 PHYSICAL DEFECTS-SURVEY AND REHABILITATION**

**3 sem. hrs.**

Identification and treatment of physical defects of handicapped children; special services, equipment, and procedures for school programs. Prerequisite: HPR 282. Also offered as SED 385. Lecture and laboratory.

**386 PHYSICAL EDUCATION FOR THE HANDICAPPED****3 sem. hrs.**

Methods for assessing motor and manipulative competencies, designing prescriptive programs, techniques for teaching motor and manipulative skills to persons with orthopedic, sensory, and mental impairments. Clinical experiences included. Prerequisites: HPR 221,222, or C&I 250.

**387 ADVANCED ATHLETIC INJURIES****3 sem. hrs.**

Selected prevention and care items; concentrated work on treatment and rehabilitation, drugs, conditioning and specific injuries. Prerequisite: HPR 384.

**390 MOOD MODIFYING SUBSTANCES AND THEIR EDUCATION IMPLICATIONS****3 sem. hrs.**

Psychological, social, medical, legal and economic aspects of use, misuse and abuse of substances are explored along with the implications for education. Also offered as HSC 390.

**391 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS****3 sem. hrs.**

Development and organization of school health programs including services, environment and instruction. Also offered as HSC 391.

**400 INDEPENDENT STUDY****1-4 sem. hrs.**

Intensive study in a special area of the advanced student's interest under a qualified member of the faculty. A written proposal, approved by the faculty member, the student's adviser, and the department chairperson is required prior to registration.

**401 CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION****3 sem. hrs.**

The nature of curriculum in physical education, with emphasis upon approaches for development, use of the discipline of human movement, pertinent content and processes, major concepts and relevant competencies.

**403 PROBLEMS IN ADMINISTRATION OF SPORTS****3 sem. hrs.**

Critical analysis of the current problems that confront the directors of physical education and athletics in the organization and administration of sports activities with special reference to national, state, and local control.

**424 SUPERVISION OF PHYSICAL EDUCATION****2 sem. hrs.**

Techniques of supervision of physical education in elementary and secondary schools; in-service training of the classroom and physical education teacher; relationships with teachers, administrators, and community.

**441 SEMINAR IN ADMINISTRATION OF PHYSICAL EDUCATION****3 sem. hrs.**

Student participation in discussion, reports and demonstrations to gain fluency in oral and written presentations relative to administration and development in physical education and sport.

**442 PHILOSOPHY OF PHYSICAL EDUCATION****3 sem. hrs.**

An examination of the philosophical bases of physical education in historical perspective and in the American

culture with implications for purposes, programs, and methodology.

**443 PROBLEMS IN HEALTH EDUCATION, PHYSICAL EDUCATION, AND RECREATION****3 sem. hrs.**

Consideration of current problems in these fields as they affect the teacher of physical education; guidance in individual and group solution of selected professional problems.

**447 EVALUATION IN PHYSICAL EDUCATION****3 sem. hrs.**

Methods for testing and evaluating in the school situation, interpreting data, and understanding statistics in research.

**448 CURRENT RESEARCH IN HEALTH EDUCATION, PHYSICAL EDUCATION, AND RECREATION****2 sem. hrs.**

Review and critical analysis of selected research studies.

**460 SEMINAR IN DANCE****2 sem. hrs.**

Student participation in lectures, reports, demonstrations, and discussions to gain fluency in oral and written presentation while criticizing or defending concepts related to dance education; critical evaluation of pertinent research and thesis plans.

**469 MOVEMENT PHENOMENOLOGY AND PERCEPTION****3 sem. hrs.**

The phenomenon of human movement. Perceptual and aesthetic theories and their application to movement. Prerequisite: HPR 282.

**472 CAMPING ADMINISTRATION****3 sem. hrs.**

A comprehensive study of the various principles and techniques involved in the successful administration of modern-day organization and private camps, from the perspective of the camp director.

**475 ADMINISTRATION OF LEISURE SERVICES****3 sem. hrs.**

Factors concerning the organization and administration of a recreation program; course designed to meet the needs of the administrators of town, community, or school recreational programs.

**481 WORK METABOLISM****3 sem. hrs.**

An investigation of the metabolic changes that occur during exercise stress in physical education and sport activities. Prerequisite: HPR 351 or consent of the instructor.

**482 MECHANICAL ANALYSIS OF MOVEMENT****2 sem. hrs.**

Principles of physics applied to body movement; analysis of body positions and modes of locomotion; muscular and mechanical analysis of selected movement skills.

**483 ADULT HANDICAPS AND CORRECTIVE PROGRAMS****2 sem. hrs.**

Analysis of physical disabilities, handicaps and conditions of adults, and will include relevant rehabilitation techniques; selected screening and evaluation techniques; the administration of adapted, corrective, and therapeutic physical education programs. Prerequisite: HPR 383.



**485 ADVANCED SEMINAR IN ATHLETIC TRAINING****2 sem. hrs.**

The advanced study and discussion of specialized topics and contemporary problems related to the field of athletic training. Prerequisite: Consent of the Coordinator of Athletic Training.

**488 ADVANCED LAB/CLINICAL PRACTICE IN ATHLETIC TRAINING****3 sem. hrs.**

Advanced laboratory and clinical practice of athletic training-sports medicine techniques under the supervision of a certified athletic trainer. Prerequisite: Consent of the coordinator of athletic training.

**491 INTERNSHIP IN COLLEGE TEACHING IN HEALTH, PHYSICAL EDUCATION, RECREATION DANCE****3 sem. hrs.**

Credit in this course is given in Curriculum and Instruction. (See Curriculum and Instruction 491).

**497 INTRODUCTION TO RESEARCH METHODOLOGY****3 sem. hrs.**

Includes use of the library, problem selection, differences in research techniques, and application of statistical models to research designs.

**499 MASTER'S THESIS****1-6 sem. hrs.****HEALTH SCIENCES**

**Chairperson:** Charles T. Spencer. Office: 103 Moulton Hall.

**Teaching Staff:** A. Nolte, B. Smith, D. Weber, R. Weller.

**Note:** Graduate degrees are not granted in the Department of Health Sciences, but course work is available as supplemental study or as electives.

**Courses****390 MOOD MODIFYING SUBSTANCES AND THEIR EDUCATION IMPLICATIONS****3 sem. hrs.**

Psychological, social, medical, legal and economic aspects of use, misuse and abuse of substances are explored along with the implications for education. Also offered as HPR 390.

**391 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS****3 sem. hrs.**

Development and organization of school health programs including services, environment, and instruction. Also offered as HPR 391.

**472 ADVANCED CONCEPTS IN HEALTH EDUCATION****3 sem. hrs.**

Examination of emerging concepts of health education related to the technological, psychological, and philosophical advances of society.

**HOME ECONOMICS**

**Chairperson:** Bessie Hackett Office: Turner Hall 144.

**Teaching Staff:** C. Carr, B. Hackett, L. Hale, J. Karch, S. Kern, K. Smith, A. Webb-Lupo.

The department offers work leading to the following degrees: M.A., M.S., M.S. in Ed. University requirements for the master's degree are listed elsewhere in this catalog.

The master's degree program provides opportunity for program concentration in Child Development and Family Relationships, Consumer Services, Food-Nutrition or Dietetics, Home Economics Education, Housing and Environmental Design, and Merchandising in Clothing and Textiles. Courses are approved by the Home Economics Graduate Adviser. Each student may choose either: (1) 32 semester hour program which includes a thesis, (2) 32 semester hour program with a comprehensive examination, or (3) 39 semester hour program of course work. The 32 semester hour program requires 12 semester hours in courses numbered 400 or above. The 39 semester hour program requires 15 semester hours in courses numbered 400 or above and enrollment in HEC 402 seminar during the candidate's last 12 hours of course work.

**Courses****301 EVALUATION IN HOME ECONOMICS****2 sem. hrs.**

Evaluation of home economics instruction, basic principles; methods and techniques; individual problems. Materials charge.

**304 CURRICULUM DEVELOPMENT IN HOME ECONOMICS****3 sem. hrs.**

Organization, methods, materials, and evaluation in relation to type of program and age level. Individual or group problems. Materials charge.

**306 EMPLOYMENT PROGRAMS IN HOME ECONOMICS****3 sem. hrs.**

Organization, administration, and operation of home economics gainful employment programs in public schools. Materials charge.

**307 THE INFANT AND TODDLER****3 sem. hrs.**

Research in growth and behavior of the young child as related to family and society. Includes 32 hrs. clinical experiences. Prerequisites: PSY 111 and HEC 194. Materials charge.

**308 ORGANIZATION AND ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS****3 sem. hrs.**

Administration of early childhood programs and community services responsible for guidance of young children. Includes 20 hours of clinical experience. Prerequisites: HEC 194 and 250. Materials charge.

**309 COUPLE RELATIONSHIPS****3 sem. hrs.**

An interactional approach to the study of intimate male-female pairing: establishing couple relationships, and developing intimate pairing communications. Prerequisite: HEC 194. Materials charge.

**310 FAMILY CRISES****3 sem. hrs.**

Cognitive and affective exploration of family crisis definition, the relationship-termination crises of death and divorce, and overview of professional helping resources.

**311 NUTRITIONAL PROBLEMS OF SPECIAL GROUPS****3 sem. hrs.**

Nutritional needs of selected populations vulnerable to inadequate diet; emphasis on U.S. programs designed for groups at nutritional risk. Prerequisite: HEC 196 or 106. Materials charge.

**313 FOOD CUSTOMS****2 sem. hrs.**

Influence of food customs of various ethnic groups on American meal patterns. Prerequisite: HEC 213. Materials charge.

**314 EARLY CHILDHOOD NUTRITION EDUCATION****3 sem. hrs.**

Principles of nutrition and current research. Emphasis on the needs of young children. Guidance in implementing a sound nutritional education program.

**316 FOOD INVESTIGATIONS****3 sem. hrs.**

Experimental approach to principles underlying food preparation. Prerequisites: HEC 213, CHE 110 and 112 req. Materials charge.

**319 QUANTITY FOODS****5 sem. hrs.**

Application of principles, techniques, and standards required to produce food in quantity for institutional and commercial feeding. Prerequisite: HEC 213. Materials charge.

**320 DEMONSTRATION TECHNIQUES****2 sem. hrs.**

Techniques and standards for demonstrations in various areas of home economics. Includes 15 hours of clinical experiences. Materials charge.

**322 PATTERNMAKING****3 sem. hrs.**

Making garment patterns by the flat pattern method. Prerequisite: HEC 122. Materials charge.

**324 DRAPING AND DESIGN****3 sem. hrs.**

Interpretation of garment designs in fabric by means of the draping procedure. Body form may be constructed. Prerequisite: HEC 220. Materials charge.

**326 FITTING AND ALTERATION****3 sem. hrs.**

Investigation and comparison of various methods of fitting and altering garments and patterns to achieve an acceptable effect. Prerequisites: HEC 122 and 220 req. Materials charge.

**327 CLOTHING AND BEHAVIOR****3 sem. hrs.**

An analysis of factors which influence human and consumer behavior in respect to clothing selection. Prerequisite: HEC 195, SAS 106, PSY 111. Materials charge.

**328 ECONOMICS OF FASHION****3 sem. hrs.**

A study of fashion as an economic force. Its influence on production, distribution and consumption of textiles and clothing. Prerequisites: HEC 195, ECO 101.

**330 DECISION-MAKING FOR CONSUMERS****3 sem. hrs.**

Survey of consumer problems, trends, and information. Topics include: insurance, housing, credit, life style, consumer protection, leisure, and achieving financial security. Also offered as BEA 330. Materials charge.

**331 CONSUMER MATERIALS****3 sem. hrs.**

Application and evaluation of print and non-print consumer materials. Prerequisite: HEC 197. Materials charge.

**340 APPLIED INTERIOR DESIGN****4 sem. hrs.**

Principles in designing interior environments to meet human needs. Laboratory devoted to development of renderings and presentations for portfolios. Materials charge. Lecture and laboratory. Prerequisites: HEC 195, 198 and 242 req.

**345 ENVIRONMENTAL DESIGN AS A PROFESSION****2 sem. hrs.**

Professional principles and practice of interior design careers, including systems, forms, and logistics of money and materials. Prerequisite: HEC 340. Materials charge.

**370 RESIDENTIAL DESIGN STUDIO****4 sem. hrs.**

Analysis of the total residential environment, applying elements and principles to projects. Emphasis on functional uses of form and space. Prerequisites: HEC 218, 242, 340, Art 389. Field trips. Materials charge.

**375 NON-RESIDENTIAL DESIGN STUDIO****4 sem. hrs.**

Studies of design theory, division space and equipment of non-residential interiors to meet the physiological and psychological requirements of the persons involved. Prerequisite: HEC 370. Field trips required. Materials charge.

**380 ORGANIZATION AND ADMINISTRATION OF VOCATIONAL COOPERATIVE EDUCATION PROGRAMS (formerly ORGANIZATION AND ADMINISTRATION OF VOCATIONAL OFFICE AND DISTRIBUTIVE EDUCATION PROGRAMS)**

**3 sem. hrs.**

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and operation of cooperative plan. Offered also as BEA 380. Includes clinical experience.

**382 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS**

**3 sem. hrs.**

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment. Offered also as BEA 382. Includes clinical experiences.

**401 SUPERVISION OF STUDENT TEACHING IN HOME ECONOMICS**

**3 sem. hrs.**

Responsibilities of Supervising Teacher. Techniques of supervision. Preparation of supervisory materials.

**402 SEMINAR IN HOME ECONOMICS****2 sem. hrs.**

Each student conducts original research and exchanges information, problems, and results by informal



lectures, reports, and discussions. May be repeated. Materials charge.

#### **406 HOUSEHOLD EQUIPMENT**

**2 sem. hrs.**

Equipment for selected housing alternatives and home economics laboratory. Group experiences with various types of labor-saving equipment. Individual research problem. Materials charge.

#### **408 FAMILY AND CHILD DEVELOPMENT**

**3 sem. hrs.**

Fundamental and current problems regarding the child and family. Practice in problem-solving and committee projects. Materials charge.

#### **409 RECENT TRENDS IN HOME ECONOMICS**

**2 sem. hrs.**

Developments in field as reflected in practices. Review of current professional literature. Materials charge. May be repeated after five years.

#### **410 FAMILY HOUSING PROBLEMS**

**3 sem. hrs.**

Current trends in housing. Aesthetic, social, economic, and managerial aspects. Federal housing programs. Materials charge.

#### **412 ADVANCED HOME MANAGEMENT**

**3 sem. hrs.**

Planning, directing, and coordinating human and non-human resources in the management of the home. Application of principles basic to modern household processes. Materials charge.

#### **414 SPECIAL PROBLEMS: CLOTHING**

**3 sem. hrs.**

Individual advanced work on several different problems or a more intensive study of one special phase of clothing. Materials charge.

#### **416 ADVANCED PROBLEMS IN FOOD INVESTIGATION**

**3 sem. hrs.**

Experimental study of foods and food preparation. Materials charge.

#### **418 SELECTION OF PROCESSED FOODS**

**2 sem. hrs.**

Study of processing methods and chemical additives. Appraisal of current marketing trends. Consideration of efficient utilization of processed foods. Materials charge.

#### **420 ADVANCED NUTRITION**

**3 sem. hrs.**

Nutrition research applied to improved dietary planning. Materials charge.

#### **422 HISTORY OF COSTUME**

**3 sem. hrs.**

Costume through the ages as expression of social, economic, and cultural life of time. Materials charge.

#### **424 SELECTED PROBLEMS IN HOME ECONOMICS**

**1-6 sem. hrs.**

Prerequisite: Approval by department chairperson. May be repeated. Materials charge.

#### **426 ADVANCED TAILORING**

**3 sem. hrs.**

Students tailor garments selected to provide variety of experiences using techniques that insure a professional product. Materials charge.

#### **491 INTERNSHIP IN COLLEGE TEACHING IN HOME ECONOMICS**

**3 sem. hrs.**

(See Curriculum and Instruction 491).

#### **498 PROFESSIONAL PRACTICE: HOME ECONOMICS**

**3-8 sem. hrs.**

Supervised professional career experience in selected agency or business setting. Prerequisite: Approval by department chairman.

#### **499 MASTER'S THESIS**

**1-6 sem. hrs.**

## **INDUSTRIAL TECHNOLOGY**

**Chairperson:** Everett N. Israel. **Office:** Turner Hall 210.

**Teaching Staff:** E. Anderson, W. Andrews, C. Bell, R. Blomgren, R. Budig, E. Dorner, E. Francis, R. Herberts, E. Israel, C.J. James, J. Johnston, F. Kagy, W. Lockwood, F. Loepf, W. McCarthy, L. Miller, C. Pendleton, C. Porter, W. L. Quane, J. Talkington, G. Weede, E. Wiseman, W. Zook.

### **Programs Offered**

The department offers work leading to the following degrees: M.A., M.S. University requirements for master's degrees are listed elsewhere in this catalog.

The master's degree program provides opportunities for program emphasis in technology of industry, industrial education and safety. Within these programs a student will select courses which will lead to an area of concentration. All courses, including transfer courses, must be listed on the Plan of Study and approved by the student's adviser, chairperson, and Dean of the Graduate School. A student may choose among: (a) 32 semester hour program which includes a thesis, (b) 32 semester hour program with a comprehensive examination, or (3) 39 semester hour program of course work.

### **Admission Requirements**

All University and Graduate School requirements for admission to a degree program apply (see index).

Students who have earned a bachelor's degree in Industrial Arts, Industrial Education, Technology of Industry, and Safety will be evaluated based upon graduate program emphasis desired. Deficiencies, if any, will be determined by the chairperson of the department.

### **Academic Advisement**

Students seeking a master's degree in Industrial Technology should meet with the chairperson of the department prior to enrollment in graduate courses. Deficiencies, if any, will be determined and a graduate adviser assigned. The student and adviser will plan the graduate program.

At the beginning of the semester or summer preceding the completion of the degree requirements, the Plan of Study required by the Graduate School is finalized for the adviser's and chairperson's approval.

## Curriculum Requirements

The master's degree program requires the student to identify an area of concentration (technology of industry, industrial education, and safety) and degree option (32 semester hours program with thesis, 32 semester hour program with comprehensive examination, or 39 semester hour program of coursework). Courses in the areas of concentrations and degree options must be listed on the Plan of Study and be approved by the student's adviser, chairperson, and Dean of the Graduate School.

Possible degree options as follows:

### 32 Semester Hours with Thesis

- IT 349\* (during first 15 semester hours)
- IT 497 (during first 15 semester hours)
- IT 403 (Prerequisite IT 497)
- IT 499 (4-6 semester hours)
- At least 16 semester hours of IT courses

— At least 12 semester hours of 400 level courses (8 semester hours in IT which does not include IT 499; additional 400 level hours beyond these 8 may include IT 499)

### 32 Semester Hours with Comprehensive Examination

- IT 349\* (during first 15 semester hours)
- IT 497 (during first 15 semester hours)
- IT 403 (Prerequisite IT 497)

— 2 semester hours of IT 400 or IT 404 (Prerequisites: IT 349 and IT 497)

— At least 16 semester hours of IT courses

— At least 12 semester hours of 400 level courses (8 semester hours in IT).

### 39 Semester Hour Program of Coursework

- IT 349\* (during first 15 semester hours)
- IT 497 (during first 15 semester hours)
- IT 403 (Prerequisite IT 497)

— 2 semester hours of IT 400 or IT 404 (Prerequisites IT 349 and IT 497)

— At least 16 semester hours of IT courses

— At least 15 semester hours of 400 level courses (8 semester hours in IT)

\*Waived if student has enrolled previously in equivalent course or demonstrates proficiency.

## Transfer Credit

Refer to index for Graduate policy. A student with student-at-large status cannot be guaranteed that any courses taken at ISU will be counted toward a degree program. A student in a degree program may transfer a maximum of six semester hours of external credits may be transferred to a degree program subject to approval of the student's adviser, chairperson, and Dean of the Graduate School.

## Time Limitations

Refer to index for Graduate policy.

## Courses

### 304 OCCUPATIONAL AND JOB ANALYSIS

3 sem. hrs.

Techniques and procedures for analyzing occupations and jobs for instructional purposes. Materials charge.

### 305 ORGANIZATION AND ADMINISTRATION OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS

3 sem. hrs.

Planning and organizing a cooperative program; emphasis on recruitment, selection or training stations, student placement, and operation of cooperative plan. Also offered as BEA 380.

### 306 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS

3 sem. hrs.

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment. Also offered as BEA 382.

### 307 EMPLOYMENT ANALYSIS FOR THE EXCEPTIONAL

3 sem. hrs.

Diagnosis and instruction of exceptional children who are placed in occupational education. Synthesizing employment and education for exceptional children. Also offered as SED 380. Materials charge.

### 308 MAN AND TECHNOLOGY

3 sem. hrs.

The course is designed to introduce to the student the concept of technology with emphasis on industrial technology, its growth, magnitude, and its effect on mankind and basic institutions. Consideration is given to the chronology of technology, technology's effect on the world of work, contemporary technological problems and issues, and technology and the future.

### 311 INDUSTRIAL OPERATIONS

3 sem. hrs.

A study of industrial principles, practices, and methods used to establish a sequence of operations to produce a product.

### 319 COMPUTER GRAPHICS

3 sem. hrs.

Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems. Materials charge. Also offered as INF 319.



**320 MASONRY CONSTRUCTION****4 sem. hrs.**

Theory, materials, and practices of concrete and masonry construction. Practical experience through on-site activities. Prerequisite: IT 221 recommended.

**321 CARPENTRY CONSTRUCTION****4 sem. hrs.**

Theory, materials, and practices of the building construction industry. Practical experience through on-site activities including carpentry and related trades. Prerequisite: IT 221 recommended.

**330 WELDING TECHNOLOGY****4 sem. hrs.**

Advanced theory and practice in modern welding processes: (TIG) tungsten inert gas, (MIG) metallic inert gas, and other electric welding processes. Prerequisite: IT 230 recommended. Not open to students who have had IT 232. Material charge.

**331 MACHINE TOOL TECHNOLOGY III****4 sem. hrs.**

Theory and practice of production machine setups; numerical control programming and operation; and electrical discharge machining (EDM) technology. Prerequisite: IT 233 required. Materials charge.

**332 APPLIED PHYSICAL METALLURGY****3 sem. hrs.**

Physical and mechanical properties of metals, testing properties, crystalline structure, metallurgical examination, constitution of alloys, heat treatment, industrial applications. Prerequisite: IT 192 recommended. Materials charge.

**342 COMMUNICATION ELECTRONICS****4 sem. hrs.**

Operation and characteristics of electronic circuits and devices employed in communication systems. Prerequisite: IT 242 req. (Formerly IT 246.) Materials charge.

**344 INSTRUMENTATION ELECTRONICS****4 sem. hrs.**

Operation characteristics, calibration and maintenance of electronic circuits and devices employed in selected electronic instruments. Prerequisite: IT 242 req. (Formerly IT 248.) Materials charge.

**349 TECHNICAL WRITING****3 sem. hrs.**

Instruction and practice in the forms and techniques of technical writing adapted wherever possible, to the professional interests of the individual student. Prerequisite: ENG 101 req. Also offered as ENG 349.

**351 IMAGE CARRIERS AND IMAGE TRANSFER****3 sem. hrs.**

Theory and laboratory practice in negative assembly, plate making, proofing and press systems. Prerequisite: IT 250 req. or demonstrated equivalent competencies. Materials charge.

**352 CHARACTER GENERATION****3 sem. hrs.**

Theory, laboratory practice on photographic, stike-on and hot metal composition equipment, magnetic disc input and VDT editing concepts are included. Prerequisite: IT 250 req. or demonstrated equivalent competencies. Materials charge.

**353 COLOR SEPARATION****3 sem. hrs.**

Theory of color, modern color separation methods, fake color, transmission and reflection copy, color correc-

tion, additive and subtractive color. Prerequisite: IT 253 req. or demonstrated equivalent competencies. Materials charge.

**354 THE GRAPHIC ARTS INDUSTRY****3 sem. hrs.**

Graphic arts industrial organization of human resources, physical assets, and money; efficient production of graphic communications products. Prerequisite: IT 250 req. or demonstrated equivalent competencies. Materials charge.

**356 OCCUPATIONAL HEALTH FOR SAFETY PROFESSIONALS****3 sem. hrs.**

A study of the relationships, effects, and methods of control of chemical, microbiological radiological, and physical hazards and stresses on the health, efficiency and well-being of employees. Prerequisites: CHE 110 and IT 171 req. Also offered as HSC 356.

**361 MOTOR VEHICLE DIAGNOSIS****3 sem. hrs.**

Motor vehicle systems diagnosis; emphasis on electrical, fuel and emissions systems. Prerequisite: IT 262 req. Materials charge.

**363 FLUID POWER SYSTEMS DESIGN AND ANALYSIS****3 sem. hrs.**

Design, sizing, and analysis of hydraulic and pneumatic circuits including both machine tool and mobile applications. Prerequisite: IT 263 req. or fluid power design experience. Materials charge.

**365 SOLAR HEATING AND COOLING TECHNOLOGY****3 sem. hrs.**

Principles, theory, and laboratory practice in active solar systems for residential space and water conditioning. Prerequisites: IT 191 or IT 211, 221 or consent of instructor. Materials charge.

**370 INDUSTRIAL ACCIDENT PREVENTION****3 sem. hrs.**

Principles, responsibilities, and techniques for developing, organizing, implementing and administering an industrial safety program. Prerequisites: PHY 105; MAT 108, 109, 110, or 120; and IT 171 req. Materials charge.

**371 ALCOHOL AND ACCIDENT PHENOMENA****3 sem. hrs.**

Effects of alcohol on accident causation. Psychological, physiological, pharmacological actions of alcohol in view of medical, sociological, religious and economic aspects. Materials charge.

**372 ACCIDENT INVESTIGATION, RECORDS, AND EVALUATION****3 sem. hrs.**

Theory and function of accident investigation, reporting and analysis systems. Form design and utilization and cost evaluation procedures. Prerequisites: MAT 108, 109, 110, or 120 and IT 171 req. Materials charge.

**373 AGRICULTURAL ACCIDENT PREVENTION****3 sem. hrs.**

Major problems of accident causation and prevention applicable to agriculture and the need for farm safety education. Also offered as AGR 345. Materials charge.

**374 METHODS AND MATERIALS OF TEACHING DRIVER EDUCATION****3 sem. hrs.**

Laboratory experience in teaching beginning drivers

using driving simulation and dual-control on the street, organization and administration of Traffic Safety programs. Prerequisite: IT 172 req. Content of IT 172 is used as students teach beginning drivers in the driving simulator and on-street. Materials charge. Valid driver's license required.

### **377 TRAFFIC ENGINEERING**

**2 sem. hrs.**

Investigation of vehicle and environmental components of HTS; vehicle inspection, equipment, design; traffic studies performed; traffic planning to reduce collisions and congestion. Prerequisites: IT 171 and 172 rec. Materials charge.

### **378 DISASTER PREPAREDNESS**

**3 sem. hrs.**

Organizing, directing, coordinating disaster services in schools, industry and local government. Includes T.B.A. 48 hr. disaster exercise. Materials charge.

### **379 CURRICULUM DEVELOPMENT IN DRIVER EDUCATION**

**3 sem. hrs.**

Behavioral-oriented curriculum applicable to driver education. Behavioral objectives, learning activities, measurement of student performance peculiar to driver education. Prerequisites: IT 172 req. Content of IT 172 is used as students teach beginning drivers in the classroom. Materials charge.

### **380 FIRE PROTECTION AND PREVENTION**

**4 sem. hrs.**

Measures related to safeguarding human life and preservation of property in prevention, detection and extinguishing fires. Prerequisite: CHE 110 and IT 171 req. Materials charge.

### **381 OCCUPATIONAL SAFETY AND HEALTH ACT**

**3 sem. hrs.**

Interpretation of the provisions of the Occupational Safety and Health Act. The regulations, standards and reporting requirements issued pursuant to it. Prerequisite: IT 171 req.

### **383 ADVANCED DRIVER EDUCATION PROGRAMS**

**2 sem. hrs.**

Techniques for teaching and dealing with common emergency situations in driving. Prerequisites: Valid driver's license req. IT 273 and/or 374 rec. Lecture and laboratory.

### **385 REINFORCED PLASTICS**

**4 sem. hrs.**

Advanced theory, practical application of fiberglass, plastic, resins, other materials in hand layup, spray up, filament winding and other common industrial techniques. Prerequisite: IT 285 req. Material charge.

### **386 TECHNICAL COMPUTER PROGRAMMING**

**3 sem. hrs.**

Digital computer programming including microprocessors, minicomputers, and time-sharing systems, related to problem solving and process control in applied sciences and technologies. Laboratory arranged. Materials charge. Also offered as INF 386.

### **400 INDEPENDENT STUDY**

**1-4 sem. hrs.**

**Department recommends 3 sem. hrs.**

Intensive research study in an area of student's interest under a qualified member of the faculty. Each individual investigation is to culminate in a comprehensive written report and/or examination. A written proposal approved

by the faculty member, the student's adviser and the department chairperson is required prior to registration. May be repeated to total of six hours. Prerequisites: IT 349 and IT 497 req.

### **401 FOUNDATIONS OF INDUSTRIAL EDUCATION**

**3 sem. hrs.**

Underlying movements and philosophies which have influenced the development of industrial education. Materials charge.

### **402 ORGANIZATION AND ADMINISTRATION OF THE PRACTICAL ARTS AND OCCUPATIONAL EDUCATION**

**3 sem. hrs.**

Problems confronting the teacher and administrator; basis for their solution. Materials charge.

### **403 SEMINAR IN INDUSTRIAL TECHNOLOGY**

**2 sem. hrs.**

A seminar consists of advanced students meeting regularly under the guidance of a professor in which each student attempts original research and exchanges information, problems and results by informal lectures, reports and discussions. May be repeated for a total of six hours. Materials charge. Prerequisite: IT 497.

### **404 SPECIAL PROJECTS IN INDUSTRIAL TECHNOLOGY**

**1-3 sem. hrs.**

Investigation of selected areas of industrial technology or accident prevention which may include laboratory work. Each individual investigation is to include a project and a comprehensive written report and/or examination. A written proposal approved by the faculty member, the student's adviser and the department chairperson is required prior to registration. May be repeated to total of six hours. Materials charge. Prerequisite: IT 349 and IT 497.

### **405 PHILOSOPHY OF THE PRACTICAL ARTS AND OCCUPATIONAL EDUCATION**

**3 sem. hrs.**

Philosophical bases for practical arts and occupational education. Materials charge.

### **470 CONCEPTUAL MODELS OF ACCIDENT PREVENTION**

**4 sem. hrs.**

Man-machine relations: factors which influence or impair machine-human functions resulting in systems failure. Materials charge.

### **491 INTERNSHIP IN COLLEGE TEACHING IN INDUSTRIAL EDUCATION**

**3 sem. hrs.**

(See Curriculum and Instruction 491).

### **497 INTRODUCTION TO RESEARCH METHODOLOGY**

**3 sem. hrs.**

Selection of a research problem, collection of data, types of research, the research report and use of the library in connection with the research problem. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis.

### **498 PROFESSIONAL PRACTICE IN INDUSTRIAL TECHNOLOGY OR SAFETY**

**1-8 sem hrs**

Refer to General Courses.

### **499 MASTER'S THESIS**

**1-6 sem. hrs.**



# COLLEGE OF ARTS AND SCIENCES

The primary purpose of the College of Arts and Sciences is to provide a broadly based educational program. The College includes the Department of Biological Sciences, Chemistry, Economics, English, Foreign Languages, Geography-Geology, History, Information Sciences, Mathematics, Philosophy, Physics, Political Science, Psychology, Sociology-Anthropology-Social Work, and Speech Pathology-Audiology. The College offers the core of the University Studies program required of all undergraduates, a wide range of academic major and minor programs for meeting baccalaureate degree requirements, master's programs in most disciplines, and doctoral programs in Biological Sciences, Economics, English, History, and Mathematics. Course offerings span the humanities, social and behavioral sciences, mathematics, and natural sciences.

## BIOLOGICAL SCIENCES

**Acting Chairperson:** Fritz E. Schwalm. Office: Felmley Hall 206.

**Teaching Staff:** R. Anderson, J. Armstrong, D. Birkenholz, H. Brockman, L. Brown, J. Cain, R. Chasson, H. Cheung, T. Chuang, G. Collier, J. Cralley, E. Dilks, B. Drummond, K. Fitch, J. Frehn, H. Hetzel, H. Huizinga, C. Hung, D. Jensen, A. Katz, A. Liberta, D. McCracken, O. Mizer, E. Mockford, M. Nadakavukaren, R. Preston, R. Rasati, W. Riddle, F. Schwalm, C. Thompson, J. Tone, J. Ward, D. Weber, R. Weigel, B. Wilkinson.

**Joint Appointment with Chemistry:** S. Gates, A. Richardson, J. Tsang, B. Wilkinson.

The Department offers work leading to the following degrees: M.S. and Ph.D. Master's degree students are required to take the following courses: **300 or 301** — Readings in Biological Sciences, and two semester hours in Seminar 420. In addition to the above courses, master's degree students in the comprehensive program are also required to take two semester hours of **400** — Independent Study.

Ph.D. students are required to take the following courses: **300 or 301** — Readings in Biological Sciences and four semester hours in Seminar 420. University requirements for the M.S. and Ph.D. degrees are described elsewhere in this catalog.

A student working toward the Ph.D. degree in Biology may concentrate studies in the following areas: botany, genetics, microbiology, physiology, or zoology.

### Ph.D. Language Requirements

General language requirements of the Graduate School apply. With the approval of the Departmental Graduate Curriculum Committee, the chairperson of the Department may permit the substitution of Psychology 440 and 441 or Mathematics 350 and 351 for one of the two foreign language requirements. The student is required to earn a grade of A or B in both of the courses in the sequence he selects.

## Courses

### 300 and 301 READINGS IN BIOLOGICAL SCIENCES

1 sem. hr. each

Readings and discussion of classical and modern biology literature.

### 302 HISTORY OF BIOLOGY

3 sem. hrs.

A study of great biologists emphasizing their contributions to the development of the biological sciences.

### 303 NATURAL SCIENCE FOR ELEMENTARY TEACHERS

3 sem. hrs.

Present-day developments in science instruction. Not for credit maj.-min.

### 304 SEMINAR IN BIOLOGY

1 sem. hr.

Oral and written reports on current topics in biology.

### 305 SPECIAL PROBLEMS IN BIOLOGY

1-3 sem. hrs.

Projects must be approved by the supervising faculty member and department chairperson prior to registration.

### 306 REGIONAL AND AREA STUDIES

1-9 sem. hrs.

Intensive study of particular lands, environments, cultures, and peoples. Prerequisite: Consent of instructor. Usually given cooperatively with other departments.

### 307 METHODS IN THE TEACHING OF BIOLOGY

3 sem. hrs.

Methods, techniques, materials, and problems peculiar to the teaching of biology in the secondary school. Prerequisite: C&I 200 or 215 or conc reg and PSY 215 or conc inst. Includes clinical experience.

### 308 FIELD BIOLOGY

3 sem. hrs.

Survey of representative ecological communities of central Illinois. Emphasis on dominant species of woody plants and vertebrates. Also includes methods and philosophies of classifying communities. Prerequisite: BSC 121 and 190 or equivalent.

### 318 LABORATORY TECHNIQUES

2 sem. hrs.

Preparation of microscope slides, special techniques for whole mounts, plastic embedding, plastic injections, and nerve preparations. Lecture and laboratory.

### 319 GENETICS

4 sem. hrs.

Data and concepts of genetics from Mendel to the present. Prerequisites: BSC 121, 190, and 260, or consent of instructor. Lecture and laboratory.

### 320 PLANT PATHOLOGY

4 sem. hrs.

Morphology, life histories, host-parasite relationships, and control measures for fungal, bacterial, and viral pathogens. Prerequisite: BSC 121. Lecture and laboratory.

### 331 TAXONOMY AND EVOLUTION OF VASCULAR PLANTS

4 sem. hrs.

Plant classification and evolution with emphasis on native and naturalized species. Prerequisite: BSC 121. Lecture and laboratory.

### 333 EVOLUTIONARY MORPHOLOGY OF VASCULAR PLANTS

4 sem. hrs.

Comparative survey of structure, life histories, reproductive mechanisms, and evolutionary relationships of vascular plants. Lecture and laboratory. Prerequisite: BSC 121.

### 334 INTRODUCTORY MYCOLOGY

3 sem. hrs.

Morphology, taxonomy, and evolution of the fungi. Prerequisite: BSC 121. Lecture and laboratory.

### 360 SANITATION

4 sem. hrs.

Fundamental principles of environmental sanitation: water, waste water, streams, solid wastes, food, air, and radiation. Prerequisite: BSC 260. Lecture and laboratory.

### 365 PHYCOLOGY

4 sem. hrs.

Morphology, taxonomy, physiology, and ecology of the algae. Prerequisite: BSC 121. Lecture and laboratory.

### 381 APPLIED HUMAN ANATOMY

4 sem. hrs.

Musculo-skeletal and nervous systems emphasized. Prerequisite: BSC 182 or HPR 182 or consent of instructor. Lecture and laboratory.

### 382 THE EYE — A LABORATORY AND CLINICAL STUDY

3 sem. hrs.

Anatomy and physiology of the eye. Lecture and laboratory supplemented with clinical demonstrations on the detection and care of eye disorders.

### 383 PARASITOLOGY

4 sem. hrs.

Morphology, life histories, and host-parasite relationships of arthropod, helminth, and protozoan parasites. Prerequisite: BSC 190. Lecture and laboratory.

### 386 GROSS ANATOMY

4 sem. hrs.

Human body exclusive of head and neck. Prerequisite: BSC 182 or 192 or HPR 182.

### 387 GROSS ANATOMY

4 sem. hrs.

Human head, neck, and neuroanatomy. Prerequisite: BSC 182 or 192 or HPR 182. Not for credit if had BSC 381.

### 390 EVOLUTION

3 sem. hrs.

Environmental, behavioral, and genetic mechanisms involved in the processes of evolution. Prerequisite: BSC 319 or consent of instructor.

### 391 INSECT MORPHOLOGY

4 sem. hrs.

Comparative anatomy of the insects. Prerequisite: BSC 190. Lecture and laboratory.

### 392 EMBRYOLOGY

4 sem. hrs.

Comparative embryology of the vertebrates with emphasis on avian and mammalian embryos. Lecture and laboratory.

### 394 PROTOZOOLOGY

4 sem. hrs.

Survey of the Phylum Protozoa, emphasizing morphology, physiology, reproduction, and taxonomy. Prerequisite: BSC 190. Lecture and laboratory.

### 395 BIOLOGY OF THE LOWER VERTEBRATES

4 sem. hrs.

The biology of fish, amphibians, and reptiles. Prerequisite: BSC 190. Lecture and laboratory.

### 396 BIOLOGY OF THE HIGHER VERTEBRATES

4 sem. hrs.

The biology of birds and mammals. Prerequisite: BSC 190. Lecture, laboratory, and field trips.

### 400 INDEPENDENT STUDY

1-4 sem. hrs.

See Index.

### 401 ADVANCED ECOLOGY

4 sem. hrs.

Physiological, population, and evolutionary ecology. May be repeated for credit with permission of Department Chairperson and Instructor. Lecture and laboratory. Prerequisites: BSC 201; courses in Physiology and Genetics.

### 402 LIMNOLOGY

4 sem. hrs.

Ecological study of streams, ponds, and lakes. Field trips to varied habitats and aquatic field stations. Lecture and laboratory. Prerequisite: BSC 201.

### 403 PLANT ECOLOGY

4 sem. hrs.

A study of recent developments in plant ecology including community processes, sampling techniques and methods of data analysis. Prerequisite: General Ecology 201.

### 410 BIOLOGICAL SCANNING ELECTRON MICROSCOPY

2 sem. hrs.

The purpose of this course is to prepare graduate students in the biological sciences to use scanning electron microscopy in their research. Lecture and laboratory. Prerequisite: consent of instructor.

### 416 CELLULAR PHYSIOLOGY

5 sem. hrs.

A study of fine structure and physiochemical properties of the cell. Lecture and laboratory. Prerequisite: Consent of instructor.

### 417 CYTOLOGY

4 sem. hrs.

Organization of cells with emphasis on the relationships between structure and function. Lecture and laboratory. Prerequisite: BSC 319.

### 418 ELECTRON MICROSCOPY

4 sem. hrs.

Preparation, staining, embedding and sectioning procedures, negative staining and vacuum evaporation techniques, preparation of specimen support membranes, photographic methods, use of the electron microscope, and introduction to electron optics. Lecture and laboratory. Prerequisite: Consent of instructor.

### 419 ADVANCED GENETICS

4 sem. hrs.

Recent developments in genetics including topics of genetic recombination, gene structure and function, muta-



tion, and gene regulation. Lecture. Prerequisite: BSC 319 or consent of instructor.

#### **420 SEMINAR IN BIOLOGY**

1 sem. hr.

Topics in various fields of biology. This course may be repeated for credit.

#### **421 CYTOGENETICS**

4 sem. hrs.

Correlation of cytology with genetics. Lecture and laboratory. Prerequisites: BSC 319 and 417.

#### **425 RADIATION BIOLOGY**

4 sem. hrs.

Interactions of radiation at the molecular, cellular, organismic, and population levels. Lecture and laboratory. Prerequisite: Consent of instructor.

#### **426 SPECIAL TOPICS IN PLANT PHYSIOLOGY**

2 sem. hrs.

Lectures in selected areas of plant physiology: water and mineral relations, carbon and nitrogen metabolism, plant growth and development. Course may be repeated for credit. Prerequisite: CHE 230, 232 or equivalent.

#### **426 ENZYMOLOGY**

3 sem. hrs.

Mechanism of action, isolation and characterization, biosynthesis, and kinetics of enzymes. Lecture and laboratory. Prerequisites: CHE 344, MAT 135, consent of instructor.

#### **433 PLANT ANATOMY AND HISTOLOGY**

3 sem. hrs.

Origin, development, and structure of tissues in vascular plants. Lecture and laboratory. Prerequisite: Consent of instructor.

#### **440 EPIDEMIOLOGY**

3 sem. hrs.

Principles related to the incidence and control of epidemic diseases. Etiology, pathogenesis, host response, identification, and diagnostic procedures. Lecture. Prerequisite: BSC 260.

#### **450 ADVANCED STUDIES IN SPECIALIZED FIELDS**

1-4 sem. hrs.

Recent developments in such fields as biochemistry, biophysics, biomathematics, biological oceanography, ecology, ethology, reproductive and developmental biology, invertebrate zoology, parasitology, systematics, phycology, plant ecology. Prerequisite: Consent of instructor. May be repeated.

#### **464 ADVANCED MYCOLOGY**

3 sem. hrs.

Isolation, culturing, physiology, and ultrastructure of fungi. Lecture and laboratory. Prerequisite: BSC 334 or consent of instructor.

#### **465 ADVANCED PARASITOLOGY**

3 sem. hrs.

Recent developments in the immunobiology and disease ecology of selected helminth and protozoan parasites in vertebrate and invertebrate hosts. Lecture and laboratory. Prerequisites: Introductory course in parasitology or consent of instructor.

#### **466 MICROBIAL PHYSIOLOGY**

5 sem. hrs.

Fundamental concepts and techniques of bacteriology. Anatomical, nutritional, and metabolic properties. Microbiological assays. Prerequisites: BSC 260 and CHE 215 and 232.

#### **467 MICROBIAL GENETICS**

5 sem. hrs.

Heredity in microorganisms and the viruses as a branch of microbiology. Lecture and laboratory. Prerequisites: BSC 260 and 319, CHE 215, 232, or consent of instructor.

#### **480 HISTOLOGY**

4 sem. hrs.

Microscopic anatomy of cells, tissues, and organs of vertebrates. Lecture and laboratory.

#### **481 SENSORY PHYSIOLOGY**

3 sem. hrs.

Structural and functional aspects of the sensory systems. Topics considered include photoreception, chemoreception, action potentials, hearing, sensory pathways, and associated brain centers. Lecture and laboratory. Prerequisite: BSC 482 or consent of instructor.

#### **482 MAMMALIAN PHYSIOLOGY**

4 sem. hrs.

The physiology of muscular, nervous, and circulatory organ systems. Lecture and laboratory. Prerequisite: Course in vertebrate anatomy and organic chemistry or consent of instructor.

#### **483 MAMMALIAN PHYSIOLOGY**

4 sem. hrs.

The physiology of the respiratory, excretory, digestive, and reproductive systems. Lecture and laboratory. Prerequisites: BSC 482, CHE 232.

#### **484 HUMAN DEVELOPMENT AND BEHAVIOR**

3 sem. hrs.

Basic genetics, developmental biology, physiology, and endocrinology for students in education, psychology, health and physical education, and special education. Prerequisite: Consent of instructor.

#### **485 ENDOCRINOLOGY**

4 sem. hrs.

Hormonal systems in vertebrates and invertebrates. Lecture and laboratory. Prerequisites: CHE 344 and BSC 482, 483, or consent of instructor.

#### **486 ETHOLOGY**

4 sem. hrs.

The behavior of animals under natural conditions as interpreted through comparative studies and experimentation. Lecture and laboratory. Prerequisite: Equivalent of BSC 199 or consent of instructor.

#### **487 HUMAN GENETICS**

4 sem. hrs.

Gene action, population genetics, biochemical genetics, mutation genetics, and practical applications of genetics with primary emphasis on humans. Prerequisite: BSC 319.

#### **488 SYSTEMATIC BIOLOGY**

2 sem. hrs.

Nature of taxonomic categories; methods of biological classification; codes of nomenclature for the biological sciences. Prerequisites: One course from the following: BSC 292, 294, 331, 334, 365, 394, 395, 396, or equivalent.

#### **490 BIOMETRICS**

3 sem. hrs.

Survey of statistical techniques encountered in biological research with emphasis on the proper use and interpretation of the analyses.

**491 INTERNSHIP IN COLLEGE TEACHING IN BIOLOGICAL SCIENCES****3 sem. hrs.**

Credit for the course is given in Curriculum and Instruction (see C&I 491). Prerequisite: Consent of Department Chairperson.

**492 DEVELOPMENTAL BIOLOGY****4 sem. hrs.**

Concepts of differentiation, induction, and regulatory mechanisms involved in regeneration, aging, carcinogenesis, and immune response, are discussed. Labs demonstrate approaches to morphological, experimental, and biochemical analysis of developmental processes. Lecture and laboratory. Prerequisites: BSC 319 and 392.

**493 BIOPHYSICS****3 sem. hrs.**

The application of principles of physics to biological problems. Attention will be given to: electromagnetic radiation, optics and microscopy, radioactivity, and bioelectric potentials. Lecture and laboratory. Prerequisite: MAT 135, PHY 109, CHE 232, or consent of instructor.

**495 COMPARATIVE ANIMAL PHYSIOLOGY****4 sem. hrs.**

A comparative study of the physiology of the organ systems with emphasis on invertebrates. Topics considered include osmotic balance, nutrition, nitrogen excretion, respiration, metabolism, endocrine mechanisms, excitation and contractility, and bioluminescence. Lecture and laboratory. Prerequisites: BSC 292; CHE 232 or consent of instructor.

**497 INTRODUCTION TO RESEARCH METHODOLOGY****3 sem. hrs.**

Selection of a research problem, collection of data, types of research, the research report, and use of the library in connection with the research problem. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Enables the student to become an intelligent consumer of the products of educational research.

**499 MASTER'S THESIS****1-6 sem. hrs.****599 RESEARCH IN THE BIOLOGICAL SCIENCES****Variable credit**

Research involving the gathering of data to form the basis for the dissertation required for the Ph.D.

**BOTANY CHEMISTRY** (See Biological Sciences)

**Chairperson:** Douglas X. West. Office: Felmley Hall of Science 305.

**Teaching Staff:** R. Bunting, G. Clark, R. Duty, S. Gates, J. Hansen, J. House, R. Hunt, T. Ichniowski, M. Kurz, R. Reiter, A. Richardson, B. Ryder, S. Shulman, G. Stevenson, J. Tsang, J. Webb, D. West.

**Master's Degree in Chemistry**

The department offers two programs leading to the M.S. degree. One requires a thesis based on original research in chemistry in addition to a core program of courses prescribed by the department.

The other program is designed to prepare teachers of chemistry at the secondary and community college level.

This program includes a prescribed core program of courses in chemistry augmented by additional course work or independent study in chemistry and/or other areas to meet the needs of the individual and the requirements of the department. The program may include a thesis.

**Courses**

The following courses are not generally applicable to an advanced degree in chemistry: 301, 302, 360, 361, 362, 363, 398.

**315 ANALYTICAL CHEMISTRY****3 sem. hrs.**

Emphasis on modern instrumental methods of chemical analysis including electroanalytical, optical, and chromatographic methods. Prerequisite: CHE 362 or conc reg. Lecture and laboratory. Materials and locker charge of \$2.

**323 QUALITATIVE ORGANIC ANALYSIS****3 sem. hrs.**

Identification of organic compounds with emphasis on modern spectrometric methods. Prerequisite: CHE 233. Lecture and laboratory. Materials and locker charge of \$2.

**342 GENERAL BIOCHEMISTRY I****3 sem. hrs.**

Survey of the chemical and physical properties of amino acids, carbohydrates, lipids and nucleic acids, and structure and function of proteins, including enzyme kinetics. Prerequisite: CHE 232 or one year of organic chemistry. Not for credit if had CHE 242.

**343 BIOCHEMISTRY LABORATORY****3 sem. hrs.**

Application of biochemical principles and methods discussed in companion course, CHE 342. Prerequisite: CHE 342 or conc reg or CHE 242 Lecture and laboratory. Materials and locker charge of \$2.

**344 GENERAL BIOCHEMISTRY II****3 sem. hrs.**

A survey of important aspects of intermediary metabolism, metabolic regulation, membrane transport, and bioenergetics. Topics will include hormonal controls and immuno-chemical response. Prerequisite: CHE 342.

**350 INORGANIC CHEMISTRY****3 sem. hrs.**

Survey of modern inorganic chemistry including structure of inorganic compounds, coordination chemistry, non-aqueous solvents, and selected inorganic reactions. Prerequisite: CHE 362.

**380 TOPICS IN CONTEMPORARY CHEMISTRY****1-3 sem. hrs.**

New concepts and recent developments in the fields of organic, inorganic, analytical, physical, and biochemistry. May be repeated.

**404 ELECTRONICS FOR SCIENTISTS****3 sem. hrs.**

Circuits of scientific instruments, electronic principles, servo systems, comparison measurements, operational amplifiers, feedback control, digital circuits, transistors, and vacuum tube circuits. Prerequisite: CHE 315.



**410 ADVANCED ANALYTICAL METHODS****3 sem. hrs.**

Advanced study of selected areas of chemical analysis with special emphasis given to fundamental principles and applications to related disciplines. Prerequisite: CHE 315.

**412 TOPICS IN ANALYTICAL CHEMISTRY****1-3 sem. hrs.**

Advanced study in selected areas of modern analytical chemistry. Course may be repeated for credit. Prerequisite: CHE 315.

**420 ADVANCED ORGANIC CHEMISTRY****3 sem. hrs.**

An advanced study of organic chemistry with emphasis on stereoisomerism, conformational analysis, resonance, synthesis, elucidation of structure, heterocyclic, and natural products chemistry. Prerequisite: CHE 232 or equivalent.

**422 MECHANISMS IN ORGANIC CHEMISTRY****3 sem. hrs.**

A critical examination of nucleophilic, electrophilic, and free radical reaction mechanisms including the study of the stability and reactivity of carbanions, carbonium ions and carbenes. Prerequisites: CHE 232 and credit or registration in 360.

**424 TOPICS ON ORGANIC CHEMISTRY****1-3 sem. hrs.**

Lectures in selected topics of modern organic chemistry. Course may be repeated for credit. Prerequisite: Organic Chemistry 232 or equivalent.

**440 TOPICS IN BIOCHEMISTRY****1-3 sem. hrs.**

Advanced study in selected areas of biochemistry. May be repeated for credit in consecutive semesters as different topics are introduced. Prerequisite: One year of biochemistry.

**450 ADVANCED INORGANIC CHEMISTRY****3 sem. hrs.**

Interpretation of contemporary theories and their application to selected areas of molecular structure and reaction dynamics in inorganic systems. Prerequisite: CHE 350.

**452 PHYSICAL INORGANIC CHEMISTRY****3 sem. hrs.**

Study of theoretical factors related to the properties of matter, including symmetry elements, group theory, and the application of various instrumental techniques to the study of the structure of inorganic compounds. Prerequisite: CHE 350.

**454 TOPICS IN INORGANIC CHEMISTRY****1-3 sem. hrs.**

Advanced study in selected areas of modern inorganic chemistry. Course may be repeated for credit. Prerequisite: CHE 350.

**460 QUANTUM CHEMISTRY****3 sem. hrs.**

An introduction to the methods of obtaining exact and approximate solutions to the Schroedinger equation, and the use of these solutions in the description of atomic and molecular systems. Prerequisites: CHE 362 and MAT 175. MAT 340 is also recommended.

**462 INTRODUCTION TO STATISTICAL THERMODYNAMICS****3 sem. hrs.**

An introduction to the methods and theorems of statistical mechanics, its relationship to chemical thermodynamics, and application to molecular models of chemical interest. Prerequisite: CHE 362.

**464 CHEMICAL KINETICS****2 sem. hrs.**

The collection and interpretation of data on chemical kinetics and the application of the results to the determination of the mechanisms of chemical reactions. Prerequisite: CHE 362.

**466 TOPICS IN PHYSICAL CHEMISTRY****1-3 sem. hrs.**

Advanced study in selected areas of modern physical chemistry. Course may be repeated for credit. Prerequisite: CHE 362.

**490 RESEARCH IN CHEMISTRY****Variable credit**

Research involving the gathering of data to form the basis for the thesis. Open only to advanced graduate students. The course can be repeated for credit. Approval of the chairperson of the department is required.

**491 INTERNSHIP-SEMINAR IN COLLEGE TEACHING IN CHEMISTRY****3 sem. hrs.**

Credit for the course is given in Curriculum and Instruction (see C&I 491).

**492 SEMINAR IN CHEMISTRY****1 sem. hr.**

Survey of current work in chemistry both in pure research and in the application of newer theories of chemistry to the teaching of chemistry on the secondary and college levels. May be repeated for a total of two semester hours.

**499 MASTER'S THESIS****1-6 sem. hrs.****Auxiliary Courses**

Not applicable to an advanced degree in chemistry.

**301 TEACHING OF CHEMISTRY****3 sem. hrs.**

Modern methods and problems confronting teachers of Chemistry. Involves study of CBA, CHEMS, and regular high school chemistry. Prerequisite: 20 hours of CHE. For teaching major only.

**302 INDUSTRIAL CHEMISTRY****3 sem. hrs.**

Scientific and applied aspects of industrial problems. Prerequisite: One semester of organic chemistry.

**360 PHYSICAL CHEMISTRY I****3 sem. hrs.**

First of a series of theoretical chemistry dealing with descriptions of gases, liquids, solutions, thermochemistry, thermodynamics, chemical and phase equilibrium, kinetic theory, and chemical kinetics. Prerequisites: CHE 141 or 150; PHY 109 or 111; 8 hrs. of CHE or PHY courses numbered 200 or higher; MAT 116 or 136.

**361 PHYSICAL CHEMISTRY LABORATORY****1 sem. hr.**

Laboratory applications of principles treated in physical chemistry. Prerequisite: CHE 360 or conc reg. Materials and locker charge of \$2.

**362 PHYSICAL CHEMISTRY II****3 sem. hrs.**

Continuation of CHE 360, including ionic equilibrium, conductance, electromotive force, spectroscopy, molecular theory, and miscellaneous applications of quantum theory. Prerequisite: 360.

**363 PHYSICAL CHEMISTRY LABORATORY II****1 sem. hr.**

Laboratory studies of the derivations and applications of principles treated in physical chemistry. Prerequisite: CHE 362 or conc reg. One three-hour laboratory period per week. Materials and locker charge of \$2.

**398 PROFESSIONAL PRACTICE IN CHEMISTRY****1-16 sem. hrs.**

Supervised practical experiences in industrial or government laboratories. There may be two to five work periods of one semester each. Prerequisites: At least junior standing in chemistry; completion of CHE 232 and 233 or equivalent and a 2.5 grade point average. **Cannot be used for graduate credit or for meeting the requirements of an undergraduate maj or min in chemistry.** Department form must be completed prior to registration.

**ECONOMICS**

**Chairperson:** Virginia L. Owen. Office: Schroeder 338.

**Teaching Staff:** G. Blomquist, J. Chizmar, R. Cohn, A. Dillingham, F. Firestone, T. Halpin W. Harden, M. Hassan, L. Hiebert, G. S. Laumas, B. McCarney, A. Nikol-skaya, A. Ostrosky, V. Owen, R. Ram, D. Ramsey.

**Master's Degree in Economics**

The Department of Economics offers work leading to the M.A. or M.S. degree. The student will ordinarily be expected to write a thesis for which four to six hours of credit will be given. If the student can demonstrate to the satisfaction of the Department chairperson that substantive writing in the discipline already has been done, the student may elect to take 32 semester hours of course work and write a comprehensive examination in lieu of the thesis. Economics 438, 440, and 441 are required of all master's degree candidates.

Admission to the program without course deficiencies requires that the student present Economics 100, 101, 130, 131, 340, and 341, or equivalents. Economics 340 and 341 may not be presented for graduate credit by a master's degree candidate in Economics.

**Doctor of Arts**

The Doctor of Arts in Economics is designed to provide advanced practitioner training to individuals for the purpose of improved instructional and curricular development capabilities for undergraduate division courses in economics in two and four-year institutions of higher education. Entry into the program ordinarily requires a master's degree or equivalent and previously successful professional experience in teaching. Each doctoral student is required to pass written comprehensive examinations in the economics core courses and one or two fields within economics. Each student, in consultation with his/her ad-

viser, will select minor field(s) consisting of no more than two areas outside economics in which at least two courses in each area ordinarily will be completed. The program requires a Professional Studies in Higher Education component coordinated by the Department of Curriculum and Instruction. The program also requires a Seminar and Practicum in the Teaching of Economics. A preliminary oral examination follows completion of all course work.

The final requirement of the program is a dissertation focusing on the teaching of economics and/or curricular developments which demonstrate a combination of scholarly, analytical, creative, and expository skills. The normal residence requirement is one year, but commuter students who demonstrate continuing progress in the program may have the residence requirement reduced to one semester. The student will be expected to fulfill all the requirements of the Graduate School. For additional information and a full statement of requirements, write the Director, Doctor of Arts Program, Department of Economics, Illinois State University.

**Courses****306 REGIONAL AND AREA STUDIES****1-9 sem. hrs.**

An intensive study of particular lands, environments, cultures, and peoples. May be given in cooperation with other departments on or off campus. The areas to be studied, participating departments, and credit hours available in the several departments, will be announced each time the course is offered.

**310 DEMOGRAPHIC ECONOMICS****3 sem. hrs.**

Theoretical and empirical study of the economics of population changes, distributions, and characteristics. Population dynamics, policy issues, and economic consequences. Prerequisite: ECO 101.

**320 INDUSTRIAL ORGANIZATION AND PRICES****3 sem. hrs.**

A theoretical and empirical analysis of the basic influences on industrial markets and performance. Market practices, the role of competition, and related policy issues. Prerequisite: ECO 101.

**326 ECONOMICS OF HUMAN RESOURCES (formerly MANPOWER ECONOMICS)****3 sem. hrs.**

Theoretical and empirical analysis of labor markets. Education and training, labor mobility, wage structure, discrimination, unemployment, wage and income policies. Prerequisite: ECO 101.

**330 MATHEMATICAL ECONOMICS****3 sem. hrs.**

Integral calculus, difference equations, differential equations, and linear algebra in relation to economic theory. Prerequisite: ECO 101 and course work in differential and integral calculus.

**331 INTERMEDIATE ECONOMIC STATISTICS****3 sem. hrs.**

Intermediate level probability and sampling theory. Hypothesis testing. Estimation. Basic econometric principles. Use of common regression packages such as ESP. Prerequisites: ECO 131 and coursework in differential and integral calculus.



**333 OPERATIONS RESEARCH****3 sem. hrs.**

Quantitative techniques for economics analysis and decision making. Includes linear programming, input-output analysis, game theory, queuing theory, and probabilistic models, with emphasis on applications to theory of the firm. Prerequisites: ECO 131 and course work in differential and integral calculus.

**335 ECONOMICS OF TRANSPORTATION AND PUBLIC UTILITIES (formerly TRANSPORTATION)****3 sem. hrs.**

An analysis of contemporary issues in transportation of public utilities, with emphasis on the impact of regulation. Prerequisite: ECO 101.

**339 MANAGERIAL ECONOMICS****3 sem. hrs.**

Theoretical and applied study of demand, costs, and production related to the theory of the firm. Developments of current interest; empirical studies intended to affirm or disaffirm applicability of economic principles. Prerequisite: ECO 101.

**340 INTERMEDIATE MICROECONOMIC THEORY****3 sem. hrs.**

Emphasis on topics regarding resource allocation, scarcity, and distribution of income; theory of consumer choice, theory of the firm, market structures, factor markets, distribution of income, welfare economics, and general equilibrium. Cannot be presented for credit toward the MS or MA in Economics. Prerequisite: ECO 101.

**341 INTERMEDIATE MAROECONOMIC THEORY****3 sem. hrs.**

Theory of income, employment, interest rate, and price level determination. The government's influence on these variables via monetary and fiscal policies. Cannot be presented for credit toward the M.S. or M.A. in Economics. Prerequisite: ECO 101.

**345 INTERNATIONAL ECONOMICS****3 sem. hrs.**

Basic aspects of the international economy as the reasons for trade, the terms of trade, and the adjustments necessary to achieve the highest possible plane of living, as well as balance of payments and exchange theory. Contemporary applications such as exchange crises, trade barriers, and the links between trade and development. Prerequisite: ECO 101.

**350 PUBLIC FINANCE****3 sem. hrs.**

Economic role of government in the economy. Analysis of the economic impacts of government expenditures and taxes on the allocation of resources, the distribution of income, employment, prices, and economic growth. Prerequisite: ECO 101.

**351 STATE AND LOCAL FINANCE (formerly ECO 451)****3 sem. hrs.**

Economic impacts of state and local tax and expenditure programs, intergovernmental fiscal relations, and problems of metropolitan areas. Prerequisite: ECO 101 or consent of instructor.

**355 ENVIRONMENTAL ECONOMICS****3 sem. hrs.**

Theoretical and empirical analysis of environmental pollution generation and of corrective policies. Emphasis

upon the resource allocation implications of public policy decisions. Prerequisite: ECO 101.

**357 URBAN AND REGIONAL ECONOMICS****3 sem. hrs.**

A theoretical and empirical analysis of cities and regions. Pricing and efficiency aspects of urban policies and problems. Prerequisite: ECO 101.

**360 QUANTITATIVE ECONOMIC HISTORY****3 sem. hrs.**

Recent empirical studies and applications of economic theory to historical problems in an American context. Prerequisite: ECO 101.

**372 HISTORY OF ECONOMIC THOUGHT****3 sem. hrs.**

A study of economic analysis from the Mercantilists to the American Institutionalists. Relates earlier schools of thought to the contemporary. Prerequisite: ECO 101.

**401 SURVEY OF ECONOMIC PRINCIPLES****3 sem. hrs.**

Compresses into a single semester matters ordinarily covered in two semesters of Economic Principles. Enrollment is limited to graduate students who have had no more than one semester of previous study in economics. Cannot be presented for graduate credit by a degree candidate in Economics or in the MBA program.

**402 CONCEPTS, METHODS, AND MATERIALS FOR IMPLEMENTING ECONOMICS EDUCATION****3 sem. hrs.**

This workshop synthesizes basic concepts, methods, and materials for implementing Economic Education in the K-12 grade levels. Not open to Economic majors and minors.

**405 THEORIES OF ECONOMIC DEVELOPMENT****3 sem. hrs.**

Consideration of economic development theories and their implications for development policy to further economic growth. Prerequisite: ECO 205 or equivalent.

**409 ECONOMIC ISSUES IN SOCIALIST ECONOMIES****3 sem. hrs.**

Topics covered include the labor theory of value, surplus value, theories of rent, expanded reproduction, economic laws in capitalism and socialism, socialist pricing, centralized and decentralized planning, problems of measurement, the new class phenomenon, and criticisms of socialist concepts. Prerequisite: ECO 210 or equivalent.

**410 SOVIET ECONOMICS****3 sem. hrs.**

Economic growth of the Soviet Union. NEP and economic planning. Examination of particular sectors of the Soviet economy. Pricing, decentralization, and economic reform. Prerequisite: ECO 101.

**415 MONETARY ECONOMICS****3 sem. hrs.**

The role of money in economic activity; the precise nature of the demand and supply conditions; the policy implications of theoretical conclusions with regard to money. Prerequisite: ECO 341 or equivalent.

**416 STABILIZATION THEORY AND POLICY****3 sem. hrs.**

Theory of economic policy, impacts of monetary and fiscal policies on employment and price levels, interest rates, growth, and balance of payments, implementation and coordination problems of monetary and fiscal policies. Prerequisite: ECO 341 or equivalent.

**435 TOPICS IN TRANSPORT AND PUBLIC UTILITY PRICING**

**3 sem. hrs.**  
Prerequisite: ECO 335 or 320.

**438 ECONOMETRICS I**

**3 sem. hrs.**  
Study of the linear regression model, properties of estimators, simultaneous equations, and specification and identification in economic theory and economic problems. Prerequisite: ECO 331, or MAT 350, or consent of instructor.

**439 ECONOMETRICS II**

**3 sem. hrs.**  
Advanced topics in econometrics, including modeling, simultaneous equations, Monte Carlo methods, spectral analysis. Fall only. Prerequisite: ECO 438.

**440 ADVANCED MICROECONOMIC THEORY I**

**3 sem. hrs.**  
The theory of the firm, the consumer and the resource owner, and the determination of prices under alternative market structures. Prerequisite: ECO 340 and work in the calculus.

**441 ADVANCED MACROECONOMIC THEORY I**

**3 sem. hrs.**  
National income analysis with emphasis on the contemporary theories of consumption, investment and interest, also consideration of the level, growth, and fluctuations of national income. Prerequisite: ECO 341 and work in the calculus.

**445 INTERNATIONAL ECONOMIC ANALYSIS**

**3 sem. hrs.**  
In depth examination of issues from pure theory of trade and international finance with special emphasis on the international economy as a dynamic system. Growth and trade, balance of payments adjustment, and the theory of exchange rate determination are considered. Prerequisite: ECO 345.

**450 ADVANCED PUBLIC FINANCE**

**3 sem. hrs.**  
Expenditure theories, cost-benefit analysis, tax incidence, welfare economics of public finance, and technical problems of income, sales, profit, and property taxes. Prerequisite: ECO 340 or equivalent.

**470 THE PUBLIC FINANCE OF HIGHER EDUCATION**

**3 sem. hrs.**  
An investigation of topics and problems in the public finance of higher education. Topics will vary each semester, but the following will usually be covered: revenue policy and expenditure policy for higher education, program and performance budgeting and other efficiency concerns, investment in education and national economic growth, aspects of the business management of higher education. Course is cross-listed as EAF 570.

**490 SEMINAR IN ECONOMICS**

**1-4 sem. hrs.**

**491 INTERNSHIP IN COLLEGE TEACHING IN ECONOMICS**

**3 sem. hrs.**  
Credit for the course is given in Curriculum and Instruction (see C&I 491).

**492 GRADUATE READINGS IN ECONOMICS**

**1-3 sem. hrs.**

For the graduate student who would benefit from a more specialized independent type of study adapted to

his/her background and needs. To be taken by permission of the chairperson of the department and the instructor involved.

**497 INTRODUCTION TO RESEARCH METHODOLOGY**

**3 sem. hrs.**

An examination of bibliography, the sources and uses of research data, and the methodology of scholarly research in Economics.

**499 MASTER'S THESIS**

**1-6 sem. hrs.**

**540 ADVANCED MICROECONOMIC THEORY II**

**3 sem. hrs.**

Advanced topics in consumption and production theory, uncertainty, general equilibrium, and welfare economics. Prerequisites: ECO 330 and 440.

**541 ADVANCED MACROECONOMIC THEORY II**

**3 sem. hrs.**

Extensions and refinements of basic static macro models and related empirical studies; growth models, disequilibrium macro models, and introduction to dynamic macro models. Prerequisites: ECO 330 and 441.

**599 RESEARCH IN ECONOMICS**

**Variable credit**

Research involving the gathering of data to form the basis of the dissertation required for the Doctor of Arts.

# ENGLISH

**Chairperson:** Charles B. Harris. Office: Stevenson Hall 409-D.

**Director of Graduate Studies:** Donald H. Ericksen. Office: Stevenson Hall 409-B.

**Teaching Staff:** R. Allen, F. Bishop, I. Brosnahan, L. Brosnahan, R. Carr, C. Cox, N. Crowell, R. Dammers, P. Drawver, R. Duncan, D. Ericksen, L. Getsi, V. Gimmetstad, G. Grever, C. Harris, J. Heissler, V. Hutton, M. Jochums, S. Kagle, W. Linneman, E. McMahan, W. Morgan, J. Neuleib, R. Newby, T. Ranta, S. Renner, C. Richardson, R. Sutherland, R. Tarr, R. White, L. Wilcox, W. Woodson.

The Department of English offers programs of graduate work leading to the Master of Arts, Master of Science, and the Doctor of Arts. University requirements for these degrees are listed elsewhere in this catalog. Departmental requirements are as follows.

## Master's Degree Programs

The Master of Arts degree requires a minimum of two years of college-level French, German, or other approved language or demonstrated equivalent ability. The Master of Science degree requires no foreign language competency. For these degrees the student generally completes all of the 32 hours of course work within the Department, unless the student chooses a Special Studies option or teaching program which permits him or her to elect 11-14 hours of course work in cognate fields. If a student chooses to write a thesis, he or she must complete 27 hours of course work and write a thesis followed by an examination.

Those students interested in teaching may elect to fulfill the requirements of the College Teaching Program, the Community College Teaching Program, the Secondary Teaching Program, the K-9 English Teaching Program, or



other Special Studies Options offered by the Department. The student may work toward a Master of Arts degree or a Master of Science degree in teaching by meeting the Special Degree requirements specified in this catalog. The requirements for the College, Community College, and Secondary Teaching Programs are set out elsewhere in this catalog. More detailed information on all these programs is included in the Graduate Handbook of the Department of English.

Candidates for all master's degrees in English must have at least 12 hours of 400-level course work, eight hours of which must be in English; candidates must complete at least 18 total graduate hours of English courses.

A student may take a course designated "Studies," "Selected Figures," or "Seminar" more than once, provided the course work does not duplicate subject matter previously covered.

## Doctor of Arts

The Doctor of Arts in English provides training for those who have a demonstrated career commitment to teaching, especially in two and four year colleges. Its purpose is to enable individuals to pursue doctoral level study for improving undergraduate instruction and curriculum in English and related disciplines. The program requires a central core of doctoral English seminars in Literature, Language, and Composition (8-12 semester hours) and graduate English courses (8-12 semester hours); an education component consisting of a Professional Seminar in the Teaching of English, and a Higher Education Sequence (20 semester hours); cognate course work in such related areas as Humanities, Social Sciences, Fine Arts, Education, and English (14 semester hours); successful completion of written and oral examinations; and a culminating dissertation that provides an opportunity for original research in both English subject matter and its application to teaching.

A full-time student should normally complete the program in two calendar years, a part-time student, in four years. The residency requirement is ordinarily one year, but can be reduced to one semester.

Admission to the program requires a master's degree or equivalent and, ordinarily, prior teaching experience. For additional information consult the Graduate Handbook or write the Director of Graduate Studies, Department of English, Illinois State University.

## Courses

### 307 MULTI-DISCIPLINARY SEMINAR (formerly ENG 398)

3 sem. hrs.

Intensive study in subject matter which crosses disciplinary lines, to be offered by two or more departments.

### 310 HISTORY AND DEVELOPMENT OF THE ENGLISH LANGUAGE

3 sem. hrs.

Development of the English language from the Old English period to the present, with attention to operational structures of contemporary English.

### 311 INTRODUCTION TO OLD ENGLISH LANGUAGE AND LITERATURE

3 sem. hrs.

The elements of Old English grammar, with selected readings in Old English literature.

### 317 VICTORIAN PROSE

3 sem. hrs.

Major non-fiction prose writers of period 1832-1901, such as Carlyle, Mill, Newman, Ruskin, Arnold, Huxley, and Pater.

### 320 CHAUCER

3 sem. hrs.

Literary and linguistic study of the major works of Chaucer; text in Middle English.

### 324 MILTON

3 sem. hrs.

Major poetry and prose of John Milton; special attention to *Paradise Lost*.

### 325 ENGLISH DRAMA BEFORE 1642

3 sem. hrs.

English drama, excluding Shakespeare, from its beginning to the closing of the theaters; authors such as Marlowe, Jonson, Webster.

### 327 RESTORATION AND EIGHTEENTH- CENTURY DRAMA

3 sem. hrs.

English drama from 1660 to 1800, including playwrights such as Dryden, Wycherley, Congreve, Goldsmith, Sheridan.

### 328 MODERN BRITISH AND AMERICAN DRAMA

3 sem. hrs.

Twentieth century British and American drama and related criticisms; playwrights such as Shaw, O'Neill, Williams, Albee, Pinter, Beckett.

### 332 SELECTED FIGURES IN AMERICAN LITERATURE

3 sem. hrs.

Study of important literary figures, genres, or movements. May be repeated if content is different.

### 336 THE AMERICAN NOVEL

3 sem. hrs.

Historical survey of major American novelists, including authors such as Hawthorne, Melville, Clemens, Crane, Hemingway, Faulkner, Barth.

### 341 INTRODUCTION TO DESCRIPTIVE LINGUISTICS

3 sem. hrs.

Aims and methods of linguistic science, nature and functions of language: phonology, morphology, syntax, dialectology. Relationship of language to culture.

### 342 INTRODUCTION TO HISTORICAL LINGUISTICS

3 sem. hrs.

Historical comparative linguistics concentrating on the Indo-European family. Causes and types of linguistic change. Prerequisite: ENG 341.

### 344 TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES

3 sem. hrs.

Theory and method in teaching English to speakers of other languages: psychological, linguistic, and cultural foundations; teaching techniques and procedures.

### 347 ADVANCED CREATIVE WRITING

3 sem. hrs.

Workshop format for individual projects, usually the writing of a series of poems or group of short stories. Prerequisite: ENG 247.

**348 PLAYWRITING****3 sem. hrs.****Also offered as THE 348**

Playwriting techniques of selected masters with practical application of techniques in writing original plays.

**349 TECHNICAL WRITING****3 sem. hrs.**

Instruction and practice in the forms and techniques of technical writing, adapted wherever possible to the professional interests of the student. Prerequisite: ENG 101. Also offered as IT 349.

**360 STUDIES IN WOMEN AND LITERATURE****3 sem. hrs.**

Studies in literature by and/or about women, focusing on stereotyping of male/female experience and developing feminist aesthetic theories.

**365 MINORITY LITERATURE****3 sem. hrs.**

20th century literature written by American ethnic minorities. Study of literary figures, genres, movements, and thematic conceptions.

**370 STUDIES IN THE HISTORY OF LITERATURE FOR YOUNG PEOPLE****3 sem. hrs.**

Advanced critical, chronological examination of literature for children and early adolescents from folklore origins to 1900. Prerequisite: ENG 170. May be repeated if content is different.

**372 STUDIES IN CONTEMPORARY LITERATURE FOR YOUNG PEOPLE****3 sem. hrs.**

A problem-centered course, emphasizing trends and research related to recent literature for children and early adolescents. Prerequisite: ENG 170 or consent of instructor. May be repeated if content is different.

**373 VERSE FOR CHILDREN (formerly ENG 273)****3 sem. hrs.**

Verse for use in kindergarten through grade eight, including various categories, elements, and well-known poets in the field. Prerequisites: ENG 170 and 271, or 272.

**374 STORYTELLING****3 sem. hrs.**

The art of storytelling based on knowledge of folklore heritage with experiences in oral transmission of literature in library or classroom setting. Also offered as INF 374.

**375 STUDIES IN LITERATURE FOR ADOLESCENTS****3 sem. hrs.**

Advanced critical examination of literature for grades seven through twelve with emphasis on trends and research. May be repeated if content is different.

**382 LITERARY CRITICISM****3 sem. hrs.**

Historical survey of selected great texts in literary and critical theory from Plato to Northrop Frye.

**385 INTRODUCTION TO GRADUATE STUDY****3 sem. hrs.**

Introduction to bibliography, methods of research, critical evaluation of scholarship, and applied literary criticism.

**386 THE EIGHTEENTH-CENTURY ENGLISH NOVEL****3 sem. hrs.**

The English novel from its origins through the eighteenth century, including writers such as Richardson, Fielding, Smollett, Sterne.

**387 THE NINETEENTH-CENTURY ENGLISH NOVEL****3 sem. hrs.**

The English novel between 1800 and 1900, treating writers such as Austen, Thackeray, Dickens, Eliot, Hardy.

**388 THE TWENTIETH-CENTURY ENGLISH NOVEL****3 sem. hrs.**

The English novel since 1900, treating writers such as Bennett, Lawrence, Woolf, Joyce, Greene.

**390 RECENT RESEARCH IN THE TEACHING OF THE LANGUAGE ARTS****3 sem. hrs.**

Critical study of current practice and research in the teaching of the language arts in the elementary school. Prerequisite: ENG 290 or equivalent.

**392 MODERN THEORIES OF RHETORIC****3 sem. hrs.**

Studies of the principles of rhetoric to serve as basis for understanding contemporary rhetorical theories.

**395 PROBLEMS IN THE TEACHING OF ENGLISH****3 sem. hrs.**

Examination of theory and practice in the teaching of language, literature, and composition at the secondary and community college level. Prerequisite: Experience in teaching (student teaching acceptable), or ENG 296, or ENG 297.

**396 THE WRITING SEMINAR****3 sem. hrs.**

Concentration upon a major writing project and the formulation of an individual writing Portfolio. Prerequisite: a minimum of 12 hours of Core Courses in the Writing Minor.

**398 PROFESSIONAL PRACTICE: INTERNSHIP AND FIELD EXPERIENCE IN ENGLISH****1-6 sem. hrs.**

Supervised internship and field experience in English with local, state, national, and international businesses, agencies, institutions (including colleges and universities), and organizations.

**413 STUDIES IN MEDIEVAL ENGLISH LITERATURE****3 sem. hrs.**

Selected linguistic, textual, or literary topics in Middle English (1100-1500). Prerequisite: ENG 320 or consent of instructor.

**414 STUDIES IN SIXTEENTH-CENTURY ENGLISH LITERATURE****3 sem. hrs.**

Several important authors such as More, Sidney, and Spenser, or a particular literary movement or genre.

**415 STUDIES IN SEVENTEENTH-CENTURY ENGLISH LITERATURE****3 sem. hrs.**

Non-dramatic works of selected seventeenth-century writers such as Bacon, Donne, Jonson, Bunyan, Dryden (excluding Milton).



**416 STUDIES IN EIGHTEENTH-CENTURY ENGLISH LITERATURE**

**3 sem. hrs.**

Important authors of the period, such as Pope, Swift, Johnson, or a particular movement or genre.

**417 STUDIES IN THE LITERATURE OF THE ROMANTIC PERIOD**

**3 sem. hrs.**

Selected authors, movements, or genres treating authors such as Blake, Wordsworth, Coleridge, Byron, Shelley, Keats.

**418 STUDIES IN VICTORIAN LITERATURE**

**3 sem. hrs.**

Authors in the period 1832-1901, such as Browning, Carlyle, Tennyson, Mill, Arnold.

**419 STUDIES IN CONTEMPORARY ENGLISH LITERATURE**

**3 sem. hrs.**

Several figures such as Yeats, Joyce, Thomas, Pinter, or a movement or genre.

**420 STUDIES IN CHAUCER**

**3 sem. hrs.**

Advanced research and study in the works of Chaucer. Prerequisite: ENG 320 or equivalent.

**422 STUDIES IN SHAKESPEARE**

**3 sem. hrs.**

Major critical problems in representative plays of Shakespeare.

**424 STUDIES IN MILTON**

**3 sem. hrs.**

Advanced study and research in the life and works of John Milton.

**428 STUDIES IN DRAMA**

**3 sem. hrs.**

Advanced study in selected works and topics from English, American, and Continental drama.

**431 STUDIES IN EARLY AMERICAN LITERATURE**

**3 sem. hrs.**

Figures, movements, or genres from 1607-1830, treating such authors as Taylor, Bradstreet, Paine, Irving.

**432 STUDIES IN AMERICAN LITERATURE 1830-1870**

**3 sem. hrs.**

Figures, movements, or genres in the American Romantic Period, treating authors such as Poe, Hawthorne, Emerson, Melville, Whitman.

**433 STUDIES IN AMERICAN LITERATURE 1870-1920**

**3 sem. hrs.**

Figures, movements, or genres in the American Realistic-Naturalistic Period, treating authors such as Dickinson, Clemens, James, Crane, Dreiser.

**434 STUDIES IN CONTEMPORARY AMERICAN LITERATURE**

**3 sem. hrs.**

Figures, movements, or genres in American literature since 1920, treating authors such as Eliot, Fitzgerald, Hemingway, Steinbeck, Faulkner.

**440 STUDIES IN ENGLISH LINGUISTICS**

**3 sem. hrs.**

Advanced study and research in various aspects of the English language. Prerequisite: ENG 341 or equivalent.

**445 TEACHING OF COMPOSITION IN THE COMMUNITY COLLEGE**

**3 sem. hrs.**

Methods for applying rhetorical theory to the teaching of writing.

**450 STUDIES IN ANCIENT LITERATURE**

**3 sem. hrs.**

Selected readings from antiquity, mostly Biblical and classical, with consideration of Eastern literature.

**452 STUDIES IN THE RENAISSANCE**

**3 sem. hrs.**

Figures, movements, or genres from the European Renaissance (1300-1650), including authors such as Rabelais, Petrarch, Montaigne, Cervantes.

**453 STUDIES IN THE ENLIGHTENMENT**

**3 sem. hrs.**

Figures, movements, or genres from the European Enlightenment (1650-1770) including authors such as Voltaire, Moliere, Racine, Diderot.

**454 STUDIES IN EUROPEAN ROMANTICISM**

**3 sem. hrs.**

Figures, movements, or genres of the period 1770-1850 in Europe, including authors such as Goethe, Rousseau, Hugo, Heine.

**456 STUDIES IN MODERN WORLD LITERATURE**

**3 sem. hrs.**

Figures, movements, or genres in World Literature from the mid-nineteenth century to the present, including authors such as Dostoevsky, Tolstoy, Camus, Mishma, Solzhenitsyn.

**482 STUDIES IN LITERARY CRITICISM**

**3 sem. hrs.**

Problems or topics in literary criticism and theory, such as Archetypal, Freudian, Historical.

**483 STUDIES IN RHETORIC AND ENGLISH PROSE STYLE**

**3 sem. hrs.**

History and characteristics of English prose style at various stages of its development. Prerequisite: ENG 241 or 310 or equivalent.

**486 STUDIES IN THE ENGLISH NOVEL**

**3 sem. hrs.**

Topics in the development of the English novel, with attention to particular techniques, figures, themes or movements.

**487 STUDIES IN THE AMERICAN NOVEL**

**3 sem. hrs.**

Topics in the development of the American novel, with attention to particular techniques, figures, themes or movements.

**491 INTERNSHIP IN COLLEGE TEACHING OF ENGLISH**

**3 sem. hrs.**

Supervised teaching at a cooperating community college or university. (Cross-listed with C&I 491).

**492 RECENT RESEARCH IN THE ENGLISH LANGUAGE ARTS**

**3 sem. hrs.**

Advanced study of significant research for elementary-junior high levels, tools and design of empirical research, needed research, student models. Prerequisite: Ability in statistics.

**493 TOPICS IN ENGLISH****1-3 sem. hrs.**

Advanced study and research in an announced area of language or literature.

**496 STUDIES IN BIBLIOGRAPHY****2 sem. hrs.**

Printing, bibliographical evidence, relation of manuscript to printed text, and problems of editing. Prerequisite: ENG 397.

**499 MASTER'S THESIS****1-6 sem. hrs.****510 PROFESSIONAL SEMINAR IN THE TEACHING OF ENGLISH****4 sem. hrs.**

Research and study of the nature of college teaching, especially the community college, with emphasis upon the exploration of new methods. Prerequisites: one English methods course, psychology of learning, teaching experience.

**540 SEMINAR IN LANGUAGE****4 sem. hrs.**

Research in one or more areas of linguistics: from descriptive and historical studies to theory of language or practical application. Prerequisite: ENG 341, or equivalent.

**560 SEMINAR IN SELECTED AREAS IN LITERATURE****4 sem. hrs.**

Research and exploration of selected areas of literary study with attention to associated curricular or teaching problems. Prerequisite: Previous teaching experience.

**590 SEMINAR IN COMPOSITION****4 sem. hrs.**

Research in the history and philosophy of rhetoric with emphasis upon exploration of new techniques for the teaching of composition to students in community or four-year colleges.

**591 PRACTICUM (INTERNSHIP) IN COLLEGE TEACHING****4 sem. hrs.**

Teaching of lower-division English courses, with emphasis upon new techniques; under faculty supervision at Illinois State University, or off campus; in conjunction with regular seminar meetings. Prerequisite: previous teaching experience.

**599 RESEARCH AND DISSERTATION****1-14 sem. hrs.**

Research involving the gathering of materials and data and the writing of a dissertation. Prerequisites: Completion of doctoral course work and approval of the topic by the graduate committee.

**FOREIGN LANGUAGES**

**Acting Chairperson:** Jeral R. Williams. Office: Stevenson Hall 425.

**Teaching Staff:** T. Comfort, A. G. Ferguson, B. Fritzen, W. Fuehrer, H. Hutter, B. Kuhn, J. Laurenti, D. Parent, K. Parker, G. Petrossian, P. Tarrant, R.O. Whitcomb.

The Department of Foreign Languages reserves the right to examine transfer students as to their ability to carry courses on the 300 level.

The department offers work leading to Master of Arts in Foreign Language. The master's degree program is flexible, permitting specialization in French, German or Spanish with either a literary or a cultural emphasis. Details of the options are available at the Department of Foreign Languages. Courses are approved by the major adviser and the chairperson of the department.

**Residency Requirements**

A candidate for a master's degree must spend at least one full term in residence in order to qualify for the degree. A full term may be interpreted as one semester, with a class load of 8-15 hours, or a summer session with a class load of from 6-9 hours.

**General Courses****300 RESEARCH IN FOREIGN LANGUAGES****1-3 sem. hrs.**

Supervised work in a foreign language, in comparative language studies or in educational materials for a foreign language laboratory. Assignments will depend on the preparation and interest of the student. Consent of department chairperson.

**320 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL****3 sem. hrs.**

Methods of teaching foreign languages in the secondary school. Special emphasis is given to audio-lingual techniques.

**321 MEDIA MATERIALS AND THEIR USES IN THE TEACHING OF FOREIGN LANGUAGES****2 sem. hrs.**

Supplementing the basic methodology of Foreign Language teaching with media materials and the techniques for their use in the Language classroom. Includes Clinical Experiences. Prerequisites: For 320 req., INF 240 rec.

**491 INTERNSHIP IN COLLEGE TEACHING IN THE FOREIGN LANGUAGES****1-3 sem. hrs.**

Credit for this course is given in Curriculum and Instruction. (See C&I 491).

**497 INTRODUCTION TO RESEARCH METHODOLOGY****3 sem. hrs.**

Introduction to bibliography, methods of scholarly research, and the critical evaluation of research in the field. Must be taken by first year graduate students.

**499 MASTER'S THESIS****1-6 sem. hrs.****French Courses****301 FRENCH ROMANTICISM****3 sem. hrs.**

Reading of poetry, novels, plays, criticism, stories, and history.

**302 FRENCH CLASSICISM****3 sem. hrs.**

Reading of plays by Corneille, Racine, and Moliere, and of selections from other seventeenth-century writers.



**309 FRENCH PHONETICS****2 sem. hrs.**

A scientific approach to French pronunciation. Correct formation of French sounds; practical application of the theory of phonetics to teaching.

**310 FRENCH SYNTAX****3 sem. hours.**

Systematic study of the morphology and syntax of the modern French language.

**316 FRENCH LITERATURE OF THE SIXTEENTH CENTURY****3 sem. hrs.**

Analysis of the Renaissance as it expressed itself in the leading writers of France in the 16th century.

**318 MOLIERE****3 sem. hrs.**

Major comedies of Moliere.

**322 FRENCH LITERATURE OF THE MIDDLE AGES (LE MOYEN AGE)****3 sem. hrs.**

A study of medieval French literature in modern French translation.

**332 FRENCH LYRIC POETRY****2 sem. hrs.**

Reading of French lyrics from the 16th century to the present; study of the schools of poetry; explication de texte; oral reading.

**385 SELECTED TOPICS IN FRENCH LITERATURE****3 sem. hrs.**

Intensive study of a genre, group of authors or a single major writer in French literature. This study varies each semester. May be repeated with different content.

**401 TWENTIETH-CENTURY AUTHORS 1900-1945****3 sem. hrs.**

Trends in contemporary prose, with readings from the novel and the drama.

**402 STYLISTICS****3 sem. hrs.**

Intensive, advanced grammar and composition, including analysis of style.

**403 TWENTIETH-CENTURY AUTHORS SINCE 1945****3 sem. hrs.**

A study in depth of the fiction, drama, and poetry in French literature since World War II.

**418 LA FONTAINE****3 sem. hrs.**

A detailed study of the life and works of La Fontaine.

**420 THE AGE OF ENLIGHTENMENT****3 sem. hrs.**

Intensive and critical study in French of the major authors and works of the eighteenth century.

**430 REALISM AND NATURALISM****3 sem. hrs.**

A detailed analysis of French literature of the late nineteenth century, including the works of Flaubert, Zola, and Baudelaire.

**431 LE SYMBOLISME ET LE PARNASSE****3 sem. hrs.**

A detailed study of French poetry in the late nineteenth century.

**German Courses****302 GOETHE****3 sem. hrs.**

Reading and discussion of a number of major works, with emphasis on the drama. Prerequisite: Two courses beyond German 116.

**303 SCHILLER****3 sem. hrs.**

Reading and discussion of a number of major works, with emphasis on the drama. Prerequisite: Two courses beyond German 116.

**309 GERMAN PHONETICS****2 sem. hrs.**

A scientific approach to German pronunciation; correct formation of German sounds; practical application of the theory of phonetics to its teaching. Prerequisites: Two courses in German literature.

**313 ADVANCED GERMAN COMPOSITION AND CONVERSATION****2 sem. hrs.**

Free discussion of topics of contemporary interest; assignment of oral and written themes based on class discussions. Prerequisite: German 213 or consent of department chairperson.

**318 GOETHE'S FAUST****3 sem. hrs.**

A critical study of Parts I and II of Faust as an expression of Goethe's philosophy. Lectures, assigned readings, and reports. Prerequisites: Two courses in German beyond 116.

**332 GERMAN LYRIC POETRY****2 sem. hrs.**

Reading and interpretation of German lyric poetry from 800 A.D. to the present. Prerequisite: German 116 or consent of department chairperson.

**385 SELECTED TOPICS IN GERMAN LITERATURE****3 sem. hrs.**

Intensive study of a genre, group of authors, or a single major writer in German literature. Prerequisite: Two courses in German literature. Provided different material is covered, the course may be taken for credit more than once.

**Spanish Courses****304 LA CIVILIZACION MEXICANA (Spanish)****2 sem. hrs.**

A study of the formation of the Mexican nation. A consideration of the development of attitudes and traditions.

**309 SPANISH PHONETICS****3 sem. hrs.**

Learning, using, and teaching correct Spanish pronunciation, stress, and intonation.

**310 SPANISH SYNTAX****3 sem. hrs.**

A systematic and thorough study of the fundamental points of Spanish grammar and composition.

**331 and 332 SPANISH-AMERICAN LITERATURE****3 sem. hrs. each**

From the colonial period through realism, and from modernism to the present.

**335 MEXICAN LITERATURE (Spanish)****2 sem. hrs.**

A survey of Mexican literature and its literary background from its beginnings to the present.

**372 SPANISH DRAMA OF THE GOLDEN AGE****3 sem. hrs.**

Reading and discussion of selected plays from the great dramatists of Spain's Golden Age.

**385 SELECTED TOPICS IN SPANISH LITERATURE****3 sem. hrs.**

Intensive study of a genre, movement, author, or work. This study varies each semester. May be repeated with different content.

**411 SPANISH-AMERICAN NOVEL****3 sem. hrs.**

The Spanish-American Novel of the nineteenth and twentieth centuries with emphasis on the most characteristic author of each period.

**421 HISTORY OF THE SPANISH LANGUAGE****3 sem. hrs.**

The historical development of the Spanish language with particular attention to its phonology and morphology.

**423 INTRODUCTION TO ROMANCE LINGUISTICS****3 sem. hrs.**

The historical development of the major Romance languages with particular attention to their structure.

**435 LEADERS IN SPANISH-AMERICAN THOUGHT****3 sem. hrs.**

The writers of prose — exclusive of fiction — who have shaped or influenced thought and action in Spanish America during the past two centuries from the beginning of the movement for independence to the present day.

**441 LA POESIA HISPANOAMERICANA (Spanish-American Poetry)****3 sem. hrs.**

Study of the main trends of Spanish-American poetry, starting with Sor Juana Ines de la Cruz in the 17th century.

**463 SEMINAR IN SPANISH LITERATURE BEFORE 1500****3 sem. hrs.**

Intensive and critical study of a major work of the period. The work studied will be varied in successive semesters.

**464 SEMINAR IN GOLDEN AGE PROSE****3 sem. hrs.**

A study of the important works of the Renaissance and Baroque periods: the novel in its various forms, the short story, religious literature, moral and historical writings.

**466 THE PICARESQUE NOVEL****3 sem. hrs.**

A study of the Picaresque Novel and its influence on modern world literature.

**467 SEMINAR IN GOLDEN AGE POETRY****3 sem. hrs.**

Intensive and critical study of Spanish poetry from Garcilaso to Quevedo, with particular attention to Italian influences, to mysticism, to the aesthetics of the Renaissance and Baroque periods, and to the traditional forms.

**468 LOPE DE VEGA AND HIS PREDECESSORS****3 Sem. hrs.**

A study of the creation of national theatre by Lope de Vega and his predecessors, with attention to the develop-

ment of preceding forms of religious and secular drama, Italian influences, and the crystallization of the spirit of the Spanish Counter-Reformation. Prerequisite: Spanish Drama of the Golden Age 372.

**469 THE THEATRE OF CALDERON AND HIS CONTEMPORARIES****3 sem. hrs.**

Emphasis will be placed both on Calderon's late dramas and upon a critical analysis of the drama of his contemporaries. Questions to be considered: national characteristics, intellectual and religious implications, the role of the individual, problems of style, and ideological interpretation. Prerequisite: Spanish Drama of the Golden Age 372.

**470 DON QUIXOTE****3 sem. hrs.**

Reading of the Quixote with special attention to the problems of interpretation and literary criticism.

**484 SEMINAR IN CONTEMPORARY SPANISH LITERATURE**

A study of the twentieth century novel, essay, poetry, or drama. May be repeated with different content.

**485 SELECTED STUDIES IN LINGUISTICS****3 sem. hrs.**

Intensive study of a linguistic problem, work, or technique. Content may vary according to interest and needs of students. May be repeated with different content.

## GEOGRAPHY-GEOLOGY

**Chairperson:** Michael Sublett. Office: Schroeder Hall 406.

**Teaching Staff:** W. Calef, R. Hart, J. Kirchner, D. Luman, P. Mattingly, E.J. Miller, R. Nelson, J. Patterson, E. Schmidt, T. Searight, S. Shuman, M. Sublett, J. Trotter, W. Walters.

The department offers work leading to the following degrees: M.A. and M.S. For both degrees there are two alternative routes. Under one option the student can earn the degree by successfully completing the required courses, writing an acceptable master's thesis, and passing an oral examination. The second option allows the student to earn the degree without a thesis by completing 32 hours of course work and passing a comprehensive written examination. Students planning to continue graduate work beyond the master's degree are strongly advised to choose the thesis option. University requirements for master's degrees are described elsewhere in this catalog.

### Courses

**300 CARTOGRAPHY****3 sem. hrs.**

Theory and techniques regarding representation of statistical data, including compilation and preparation of various types of thematic maps. Field trip required.

**305 REMOTE SENSING I: PHOTOGRAMMETRY****3 sem. hrs.**

Basic principles of photogrammetry. Techniques and measurements in remote sensing. Field trip required.

**306 REGIONAL AND AREA STUDIES****1-9 sem. hrs.**

Intensive on-site study of particular lands, environments, cultures, and peoples. Field work required.



### 308 QUANTITATIVE METHODS IN GEOGRAPHY

3 sem. hrs.

Use and interpretation of basic statistical techniques in geographical problems.

### 310 FIELD GEOGRAPHY

3 sem. hrs.

Techniques of mapping and interpretation of the phenomena of the natural and cultural landscapes; original study and mapping. Field work required.

### 315 METHODS AND CONCEPTS IN GEOGRAPHY

2 sem. hrs.

Selected professional publications designed to acquaint the student with the development of basic concepts and methods in geography.

### 320 RURAL LAND USE AND AGRICULTURAL GEOGRAPHY

3 sem. hrs.

Spatial aspects of agriculture: regionalization, distribution, and theories of location relating to crop and livestock production and other rural land uses. Prerequisite: GEO 150.

### 325 WORLD POPULATION AND RESOURCES

3 sem. hrs.

Population growth and resource distribution and their impacts on national policy, levels of living, food supply, and educational levels. Prerequisite: GEO 150 or 205.

### 330 TRANSPORTATION AND COMMUNICATION

3 sem. hrs.

Geographic analysis of systems of spatial interaction including influence of transportation on industrial location and regional development. Prerequisite: GEO 150.

### 335 MANUFACTURING GEOGRAPHY

3 sem. hrs.

Location and structure of American manufacturing industries. Prerequisite: GEO 150.

### 336 URBAN GEOGRAPHY

3 sem. hrs.

Internal morphology, external relationships, and other spatial aspects of cities.

### 338 LIFE AND LANDSCAPE

3 sem. hrs.

Cultural groups, their languages, religions, diets, house types, settlement forms and names. American and European examples. Field work required. Prerequisite: GEO 135.

### 340 PROBLEMS IN CLIMATOLOGY

3 sem. hrs.

Investigation of specific problems in climatology. Prerequisite: GEO 200.

### 345 PROBLEMS IN CONSERVATION AND OUTDOOR RECREATION

3 sem. hrs.

Investigation of specific problems in conservation and resource use including outdoor recreational resources. Prerequisite: GEO 205.

### 380 GEOMORPHOLOGY

3 sem. hrs.

Origin, classification, description, and interpretation of landforms. Prerequisite: GEO 175. Field trip required.

### 382 GLACIAL AND QUATERNARY GEOLOGY

3 sem. hrs.

Development of glaciers, glacial movements, deposits, and landforms as background for discussion of present

landscapes. Prerequisite: GEO 100 or GEO 175. Field trip required.

### 401 ADVANCED CARTOGRAPHY

3 sem. hrs.

Techniques of cartographic presentation. Compilation and construction of maps and diagrams for research and teaching. Prerequisite: GEO 300.

### 412 ADVANCED CULTURAL GEOGRAPHY

3 sem. hrs.

The forms and processes of man's occupation and use of his habitat within cultural regions. Examples from North America and Western Europe are presented in depth. Prerequisite: Advanced standing in geography.

### 415 ADVANCED URBAN GEOGRAPHY

3 sem. hrs.

Detailed analysis of the spatial aspects of urban developments. Focus on urban morphology and external relationships. Prerequisite: GEO 336.

### 420 PHYSIOGRAPHY OF NORTH AMERICA

3 sem. hrs.

Physiographic regions of North America. Development of surface features of each area as a background for present geographic patterns of that region. Field trip required. Prerequisite: GEO 100 or 175.

### 430 GEOGRAPHY OF LATIN AMERICA

3 sem. hrs.

Intensive study of selected areas with emphasis upon settlement patterns, resources, and interregional relations.

### 435 GEOGRAPHY OF WESTERN EUROPE

3 sem. hrs.

Regional and economic development of the British Isles and continental Europe. Intensive investigations of resource, industrial, agricultural, and population patterns.

### 440 MEDITERRANEAN LANDS

3 sem. hrs.

Regional survey of the physical, cultural, and economic aspects of southern Europe, the Levant, and North Africa. Individualized instruction.

### 445 GEOGRAPHY OF THE MIDDLE EAST

3 sem. hrs.

Survey of the lands and peoples of southwestern Asia. Resource and population patterns of regional and political units.

### 450 GEOGRAPHY OF THE FAR EAST

3 sem. hrs.

Lands and peoples of eastern Asia, with emphasis on China and Japan. International, national, and regional characteristics and problems.

### 470 SEMINAR IN REGIONAL GEOGRAPHY

3 sem. hrs.

Prerequisite: Advanced standing in geography.

### 471 SEMINAR IN ECONOMIC-RESOURCE GEOGRAPHY

3 sem. hrs.

Prerequisites: GEO 150 or 205.

### 472 SEMINAR IN PHYSICAL GEOGRAPHY

3 sem. hrs.

Prerequisite: GEO 201 or equivalent. Field work required.

### 473 SEMINAR IN HUMAN GEOGRAPHY

3 sem. hrs.

Prerequisite: GEO 135.

**491 INTERNSHIP IN COLLEGE TEACHING OF GEOGRAPHY****3 sem. hrs.**

Credit for this course is given in C&amp;I. (See C&amp;I 491.)

**497 INTRODUCTION TO RESEARCH METHODOLOGY****3 sem. hrs.**

Introduction to bibliography, methods of scholarly research, and the critical evaluation of research in the field. Should be taken by first year graduate students.

**498 PROFESSIONAL PRACTICE: URBAN AND REGIONAL PLANNING****1-8 sem. hrs.**

Advanced practical experience in a professional planning or related organization. Forty hours of practice per credit hour. Maximum six hours credit for geography master's program. Prerequisites: 15 graduate hours, graduate GPA 3.2, and consent of departmental chairperson.

**499 MASTER'S THESIS****1-6 sem. hrs.****Auxiliary Courses**

(Not applicable to a graduate degree program in geography.)

**375 ECONOMIC GEOLOGY****3 sem. hrs.**

Earth materials of economic importance. Characteristics and uses of common metallic and non-metallic minerals and rocks. Prerequisite: GEO 180 req. GEO 296 rec.

**385 INVERTEBRATE PALEONTOLOGY****4 sem. hrs.**

Examination and analysis of major fossil invertebrate phyla; emphasis on groups with paleoecologic and stratigraphic significance. Prerequisite: GEO 180 req. BSC 190 rec. Lecture and laboratory. Field trip required.

**390 OPTICAL MINERALOGY****3 sem. hrs.**

Optical theory and techniques in the use of petrographic microscope, optical identification of minerals using oil immersion and thin-section methods. Prerequisite: GEO 280. Lecture and laboratory.

**392 GENERAL PETROGRAPHY****3 sem. hrs.**

Petrographic study of mineralogy, textures, mineral paragenesis, and classification of igneous, sedimentary, and metamorphic rocks in thin-section. Prerequisites: GEO 285 and 390. Lecture and laboratory.

**395 FIELD GEOLOGY****6 sem. hrs.**

Application of geologic principles to field mapping and interpretation in the Black Hills and Central Rocky Mountains. Prerequisites: GEO 280, 285, and 290.

**HISTORY****Chairperson:** L. Moody Simms. Office: Schroeder Hall 334.**Teaching Staff:** R. Austensen, R. Champagne, I. Cohen, G. Cunningham, D. Davis, C. Ekberg, J. Freed, J. Grabill, C. Gray, W. Haddad, A. Helgeson, M.P. Holsinger, N. Holt, G. Homan, F. Kohlmeyer, D. MacDonald, M. Plummer, J. Rayfield, E. Reitan, T. Sands, E. Schapsmeier, K. Sessions, L. M. Simms, Jr., L. Walker, H. Wray, W. Wyman.

The department offers work leading to the following degrees: M.A., M.S., D.A. University requirements for these degrees are listed elsewhere in this catalog. Departmental requirements are as follows:

**Master's Degree in History**

The master's degree in History requires 32 or 39 semester hours of graduate credit in History and such related subjects as the graduate student adviser recommends. A student who chooses to emphasize U.S. History must earn at least five semester hours of graduate credit in History other than U.S. History. A student who chooses to emphasize Western Civilization or the Non-Western World must earn at least five semester hours of graduate credit in U.S. History. At least 16 semester hours of credit must be at the 400 level. These 16 semester hours do not include HIS 499 (Thesis). History 497 is required of all students, and if possible should be taken in the first semester of graduate study.

A student may choose one of the following three options: (1) writing a master's thesis; (2) taking a comprehensive examination; and (3) a 39-hour program. A student may receive up to six semester hours of credit for a master's thesis; these six hours are included in the 32 hour requirement. Preparation of a master's thesis is of advantage to students who expect to work toward doctoral degrees. The student who chooses the comprehensive examination will take the examination upon completion of the required 32 semester hours of course work. This student is also required to submit two revised seminar papers for evaluation and approval by the graduate faculty at the time of the comprehensive examination. The student who chooses the 39 semester hour program is required to take History 496. If possible, this synthesizing experience should be taken in the last semester of graduate work. Also two revised seminar papers must be submitted for evaluation and approval by the graduate faculty.

**Doctor of Arts**

The Doctor of Arts in History is offered to persons seeking advanced training for teaching and curriculum leadership in colleges, community colleges, or high schools. Entry into the program requires a master's degree and successful teaching experience. The program includes the following course requirements: (a) Core Courses (HIS 496, 501, 505, 506), (b) 16 semester hours in the Major Field in History, (c) 8 semester hours in the Minor Field in History or Related Subject, and (d) 6 semester hours in Professional Studies in Education. A comprehensive oral and written examination follows completion of all course work. The final requirement of the program is a dissertation (14 semester hours). A dissertation may be primarily concerned with the investigation of a historical topic, with one or more chapters showing how the material may be used in the classroom, or it may be primarily concerned with teaching or curriculum development. Although the degree of emphasis may vary from one dissertation to another, all dissertations should demonstrate competence both in dealing with historical material and in the teaching of history. The normal residence requirement is one year, but commuter students who make continuing progress in the program may have the residence requirement reduced to one semester. For additional information, write to the Chairperson, Department of History, Illinois State University.



## Courses

### 306 REGIONAL AND AREA STUDIES

1-9 sem. hrs.

Intensive study of particular lands, environments, cultures, and peoples. Consent of instructor. Usually given cooperatively with other departments.

### 310 SEVENTEENTH-CENTURY AMERICA

3 sem. hrs.

Establishment and development of the American Colonies from Jamestown to the end of the 17th Century. Special emphasis is given to Puritan New England.

### 311 AGE OF THE AMERICAN REVOLUTION

3 sem. hrs.

The emergence of the United States as an independent nation from 1763 to the Constitutional Convention in 1787.

### 317 AMERICAN CULTURAL EXPANSION AND DIPLOMACY

3 sem. hrs.

Worldwide expansion of American diplomatic, economic, cultural, and religious influence in the nineteenth and twentieth centuries.

### 320 LINCOLN: THE MAN AND HIS TIMES

3 sem. hrs.

Attention directed especially toward the work of Lincoln in Illinois, his leadership during the Civil War, and his relationship with people and events of his time.

### 321 GREAT FIGURES OF AMERICAN HISTORY

3 sem. hrs.

Personalities selected from American History. Emphasis on the contributions and lasting influence of significant individuals.

### 322 AMERICAN URBAN HISTORY

3 sem. hrs.

Survey of the history of the American city from 1820 to the present.

### 323 AMERICAN CULTURAL AND INTELLECTUAL HISTORY I

3 sem. hrs.

American progress in the fine arts, philosophy, literature, and science from Puritan times to 1860.

### 324 AMERICAN CULTURAL AND INTELLECTUAL HISTORY II

3 sem. hrs.

The impact of naturalism, industrialization, secularization, and urbanization upon American culture since 1860.

### 325 PROBLEMS IN TWENTIETH-CENTURY UNITED STATES CONSTITUTIONAL HISTORY

3 sem. hrs.

An examination of major problems in American constitutional history since the Progressive Era: civil rights, freedom of speech and religion, federal-state relations.

### 326 CASES IN BUSINESS HISTORY

3 sem. hrs.

Study of mergers, business ethics, innovations, relations with labor and government, marketing, and financing, based on the historical experience of individual companies and business leaders.

### 327 AMERICAN LABOR HISTORY

3 sem. hrs.

The Industrial Revolution's impact upon workers, with emphasis on the responses through unions and politics and on the role of government.

### 328 AMERICAN AGRICULTURAL HISTORY (Formerly HIS 422: HISTORY OF AMERICAN AGRICULTURE)

3 sem. hrs.

Focus on farming from colonial times to the present, including changing technology, land use, and economic, political, and social environment.

### 341 EUROPEAN INTELLECTUAL HISTORY TO 1600

3 sem. hrs.

The study of the ideas of the ancient world, Middle Ages, Renaissance Reformation, examined in a social, political, and economic context.

### 342 EUROPEAN INTELLECTUAL HISTORY SINCE 1600

3 sem. hrs.

A study of the ideas of the scientific revolution, enlightenment, nineteenth century and twentieth century examined in a social, political, and economic context.

### 343 MODERN EUROPEAN DIPLOMATIC HISTORY I, 1789-1890

3 sem. hrs.

The diplomatic history of Europe from the French Revolution to the fall of Bismarck.

### 344 MODERN EUROPEAN DIPLOMATIC HISTORY II, 1890 TO PRESENT

3 sem. hrs.

The diplomatic history of Europe from the fall of Bismarck in 1890 to the present.

### 345 FRENCH REVOLUTION AND NAPOLEON, 1789-1815

(Formerly FRENCH REVOLUTION NAPOLEONIC ERA, 1789-1815)

3 sem. hrs.

Society, culture, and government under the monarchy; destruction of the old order: rise and fall of Napoleonic France.

### 351 ANCIENT NEAR EAST

3 sem. hrs.

Study of the civilizations of Mesopotamia and Egypt from the neolithic period to 500 B.C.

### 352 THE HELLENISTIC WORLD

3 sem. hrs.

A comprehensive study of the world bequeathed by Alexander the Great from his death in 323 B.C. to the founding of the Roman Empire.

### 354 MEDIEVAL RELIGIOUS HISTORY

3 sem. hrs.

A history of Christianity from Constantine to the Reformation.

### 356 THE ENLIGHTENMENT

3 sem. hrs.

Intellectual and social history of the western world during the eighteenth century.

### 360 TUDOR-STUART ENGLAND, 1485-1689

3 sem. hrs.

General survey of English history from the beginning of the Tudor dynasty to the Revolution of 1688-89.

### 361 EIGHTEENTH-CENTURY BRITAIN, 1689-1815

3 sem. hrs.

Britain from the Revolution of 1688-89 through the early Industrial Revolution and Napoleonic wars.

**362 MODERN BRITAIN, 1815 TO THE PRESENT**

3 sem. hrs.

A general survey of British history in the nineteenth and twentieth centuries.

**365 NAZI GERMANY 1933-1945**

3 sem. hrs.

Reading, discussion, and research in the major books and articles in the field.

**366 SOVIET RUSSIA, 1917 TO THE PRESENT**

3 sem. hrs.

An evaluation of the origins and rise of Bolshevik power, concentrating on those economic, cultural, and social developments leading to great power status.

**371 MODERN LATIN AMERICA**

3 sem. hrs.

The history of the Latin American countries in the last 100 years with emphasis on the twentieth century.

**373 HISTORY OF MODERN CHINA**

3 sem. hrs.

Concentrates on the Western and Chinese collision since the 1800's and the responses of traditional, national, and contemporary China to modernization.

**375 HISTORY OF MODERN JAPAN**

3 sem. hrs.

Concentrates on Japan's modernization, goals of Meiji leaders, contradictory tendencies of pre-war Japan, and contemporary Japan.

**390 SOCIAL STUDIES TEACHING  
METHODOLOGY II**

3 sem. hrs.

Examination of social studies project materials use of instructional models and clinical experiences Prerequisites: HIS 290 and C&I 200 (6 hrs) or 215 or conc reg.

**401 SEMINAR IN AMERICAN HISTORY**

4 sem. hrs.

**402 SEMINAR IN EUROPEAN HISTORY**

4 sem. hrs.

**403 SEMINAR IN ASIAN HISTORY**

4 sem. hrs.

**411 SEMINAR: EIGHTEENTH-CENTURY  
AMERICA**

4 sem. hrs.

**412 SEMINAR: THE AGE OF JACKSON**

4 sem. hrs.

**413 SEMINAR: THE COMING OF THE CIVIL  
WAR**

4 sem. hrs.

**414 SEMINAR: CIVIL WAR AND  
RECONSTRUCTION**

4 sem. hrs.

**416 SEMINAR: PROGRESSIVISM**

4 sem. hrs.

**417 SEMINAR: TWENTIETH-CENTURY  
AMERICA**

4 sem. hrs.

**423 SEMINAR: AMERICAN ECONOMIC  
HISTORY**

4 sem. hrs.

**424 SEMINAR: AMERICAN CULTURAL AND  
INTELLECTUAL HISTORY**

4 sem. hrs.

**426 SEMINAR: AMERICAN CONSTITUTIONAL  
HISTORY**

4 sem. hrs.

**428 SEMINAR: AMERICAN DIPLOMACY**

4 sem. hrs.

**431 SEMINAR: THE OLD NORTHWEST,  
1840-1880**

4 sem. hrs.

**432 RESEARCH PROBLEMS IN LOCAL  
HISTORY**

4 sem. hrs.

**441 SEMINAR: EUROPEAN INTELLECTUAL  
HISTORY**

4 sem. hrs.

**453 SEMINAR: THE REFORMATION**

4 sem. hrs.

**461 SEMINAR: EIGHTEENTH-CENTURY  
BRITAIN**

4 sem. hrs.

**463 SEMINAR: MODERN FRANCE**

4 sem. hrs.

**466 SEMINAR: MODERN GERMANY**

4 sem. hrs.

**468 SEMINAR: MODERN RUSSIA**

4 sem. hrs.

**472 SEMINAR: TWENTIETH-CENTURY LATIN  
AMERICA**

4 sem. hrs.

**477 SEMINAR: THE CONTEMPORARY  
MIDDLE EAST**

4 sem. hrs.

**496 PHILOSOPHY OF HISTORY AND  
HISTORIOGRAPHY**

4 sem. hrs.

Examination of the philosophical bases for historical study with review of the development of historical knowledge and the historical profession.

**497 INTRODUCTION TO RESEARCH  
METHODOLOGY**

3 sem. hrs.

**499 MASTER'S THESIS**

1-6 sem. hrs.

**501 INTERPRETIVE PROBLEMS IN  
TEACHING HISTORY**

4 sem. hrs.

Examination of selected problems of historical interpretation with special emphasis upon their use in history teaching. For doctoral students or consent of instructor.

**505 SEMINAR AND PRACTICUM IN HISTORY  
TEACHING**

4 sem. hrs.

Involves students in analyzing and evaluating teaching and research findings, examining alternative goals and teaching methods, and preparing model instructional units. For doctoral students or consent of instructor.

**506 RESEARCH-INTERNSHIP IN THE  
TEACHING OF HISTORY**

4 sem. hrs.

Involves students in analysis of research findings, a teaching internship, and planning a dissertation proposal. For doctoral students or consent of instructor.

**599 DOCTORAL DISSERTATION**  
Variable Credit



# INFORMATION SCIENCES

**Chairperson:** William Semlak. **Office:** Stevenson 116-B.

**Teaching Staff:** J. Boaz, R. Brake, J. Cragan, V. Hazelton, R. Holdridge, T. Hollihan, D. Hustuft, T. Jackson, S. Johnson, S. Kapoor, C. Konsky, J. Kraus, L. Long, J. Murdock, S. Rives, W. Semlak, M. Shapiro, R. Smith, C. E. Streeter, T-H Tchong, G. Tuttle, L. Watkins, C. White, W. Williams, R. Wiman, F. Wisely, D. Wright.

The department offers work leading to the M.A. and M.S. degrees in Speech Communication and to the M.S. and M.S. in Education degrees in Instructional Media.

Speech communication is a degree designed to meet the individual needs of the graduate student. Two courses are required: INF 422, Proseminar in Communication and INF 497, Introduction to Research Methodology. The remaining courses are selected by the student and adviser. Programs include, but are not limited to: applied communication, communication education, communication theory and mass communication. All programs can include a graduate internship.

The Instructional Media degree offers three areas of concentration: (1) production of instructional materials, (2) administration of media programs and (3) media research and theory. The prerequisite for admission is INF 240, Utilization of Audio Visual Materials or an equivalent. Students desiring certification in Library Science Education may obtain clinical experiences in the following courses: INF 301, INF 305, INF 307, INF 310 and INF 312. A program in Instructional Media and Special Education is also available.

## Instructional Media

### Courses

#### 301 ADVANCED REFERENCE SOURCES

3 sem. hrs.

The selection, use, and evaluation of print and non-print reference materials in selected subject fields. Includes clinical experiences.

#### 305 BUILDING AND MAINTAINING LIBRARY COLLECTIONS

3 sem. hrs.

A survey of general selection aids, principles of selection, criteria for evaluation. Development of a materials selection policy, intellectual freedom and censorship. Includes clinical experiences.

#### 306 LIBRARY MATERIALS FOR CHILDREN

3 sem. hrs.

Selection, evaluation, and use of media in various subject areas. Use of materials in meeting individual interests, needs, and abilities of children. Prerequisite: INF 305 consent of instructor. Includes clinical experiences.

#### 307 MEDIA FOR YOUNG ADULTS

3 sem. hrs.

Selection, evaluation, and use of media for young adults in public and secondary school libraries. Materials are related to development of young people and to the school curriculum. Prerequisite: INF 305 or consent of instructor. Includes clinical experiences.

#### 308 LIBRARY MATERIALS FOR ADULTS

3 sem. hrs.

Evaluation, selection, and use of media for adults. A study and analysis of interests and information needs. Prerequisite: INF 305 or consent of instructor.

#### 310 ORGANIZATION OF LIBRARY MATERIALS

4 sem. hrs.

Principles of cataloging and classification and their application in organizing media collections; Dewey Decimal Classification System and the Anglo-American cataloging code. Supervised laboratory work. Includes clinical experiences.

#### 312 ADMINISTRATION OF THE LIBRARY MATERIALS CENTER

3 sem. hrs.

Principles and procedures in developing, directing, and evaluating library media services. Includes clinical experiences.

#### 319 COMPUTER GRAPHICS

3 sem. hrs.

Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems. Also offered as IT 319. Materials charge.

#### 326 LIBRARY SERVICES FOR SPECIAL GROUPS

3 sem. hrs.

Trends in the development of services, primarily by public libraries in the United States and in Illinois, for groups with unique needs.

#### 327 SPECIAL LIBRARIES

3 sem. hrs.

Survey of the services and functions of the major types of special libraries. Supervised field trips.

#### 337 PROGRAMMED LEARNING

3 sem. hrs.

Construction and evaluation of programmed sequences for various media; analysis and application of theories as they relate to instruction.

#### 340 COMPUTER APPLICATIONS IN EDUCATION

3 sem. hrs.

Examination and discussion of the ways computers may be used in education. Administration, instruction, research, storage of information, accounting, and simulation. Consent of instructor.

#### 345 INTRODUCTION TO LIBRARY TECHNOLOGY

3 sem. hrs.

Application of mechanized, automated, and computerized equipment to achieve economy, efficiency, and speed in library operations. Analysis and design of library systems.

#### 362 INSTRUCTIONAL TELEVISION

3 sem. hrs.

Television as a means of instruction in terms of research, technique, utilization, and evaluation. Lecture and laboratory.

#### 365 FUNDAMENTALS OF GRAPHIC PRODUCTION

3 sem. hrs.

Fundamental skills and techniques for mounting, lettering, coloring, illustrating, and reproducing graphic materials. Prerequisite: INF 240 or consent of instructor. Lecture and laboratory. Materials charge.

**366 GRAPHIC DESIGN AND PRODUCTION****3 sem. hrs.**

Design and practice in the application of skills and knowledge to specific production problems. Student must integrate skills, knowledge of materials, design, and communication theory. Prerequisites: INF 241 and 365 or consent of instructor. Lecture and laboratory. Materials charge.

**367 AUDIO PRODUCTION****3 sem. hrs.**

Selection, evaluation, production, operation, and maintenance of audio devices and materials. Lecture and laboratory. Materials charge.

**368 MOTION PICTURE PRODUCTION****3 sem. hrs.**

Theory and practice in planning and producing motion pictures. Considers treatments, storyboard, script writing, shooting, editing, titling, and technical problems of production. Student provides film and processing. Lecture and laboratory. Materials charge.

**386 TECHNICAL COMPUTER PROGRAMMING****3 sem. hrs.**

Digital computer systems, programming digital computers, and their use in solving problems related to applied sciences and technologies. Also offered as IT 386. Laboratory arranged. Materials charge.

**391 PROFESSIONAL METHODS IN LIBRARY SCIENCE AND INSTRUCTIONAL MEDIA****3 sem. hrs.**

Identification, examination and appraisal of professional methods, competencies, standards of practice and current issues and problems in the library science and instructional media field.

**423 THE PROCESS OF COMMUNICATION****3 sem. hrs.**

Studies the process of communication as it occurs between individuals, small groups, in organizations, and in mass societies. Covers theoretical and research literature from the fields of speech, psychology, sociology, and communication.

**433 ADMINISTRATION OF MEDIA CENTERS****3 sem. hrs.**

Principles and practices of organizing and managing instructional media programs in school systems, colleges, business, and industry. Considers services, facilities, budgeting, personnel, public relations, and evaluation.

**434 RESEARCH IN INSTRUCTIONAL MEDIA****3 sem. hrs.**

Critical analysis of selected research studies in institutional communications and technology. Research methods and sources of data in major categories of media research.

**435 INSTRUCTIONAL SYSTEMS DEVELOPMENT****3 sem. hrs.**

Involves specific identification of an instructional problem; analysis of the resources and alternatives; and the synthesizing procedures toward an effective solution.

**436 INSTRUCTIONAL MESSAGE DESIGN****3 sem. hrs.**

Planning and designing mediated instructional messages. Concepts developed are applied to the production and evaluation of a selected design problem. Prerequisites: INF 241, 365, 366.

**498 PROFESSIONAL PRACTICE IN COMMUNICATION**

Refer to Index for General Courses.

**499 MASTER'S THESIS****1-6 sem. hrs.****Speech Communication****Courses****302 COMMUNICATION CRITICISM****3 sem. hrs.**

The course develops critical skills for describing, interpreting, and evaluating communication from different theoretical perspectives. Prerequisite: INF 110 or consent of instructor.

**303 CONTROVERSY AND CONTEMPORARY SOCIETY****3 sem. hrs.**

Contemporary communication on current significant, controversial issues. Prerequisite: INF 110 or consent of instructor.

**304 FREEDOM OF SPEECH AND PRESS****3 sem. hrs.**

A study of First Amendment rights. Emphasis on Supreme Court decisions relating to political dissent, obscenity, provocation and demonstration, and press freedom. Prerequisite: INF 110 or consent of instructor.

**321 MESSAGE COMPOSITION****3 sem. hrs.**

The application of communication theory and research to the composition of informative and persuasive messages. Emphasis: organizational and language factors affecting mediated and non-mediated communication. Prerequisite: INF 110 rec or consent of instructor.

**323 THEORY AND RESEARCH IN SMALL GROUP COMMUNICATION****3 sem. hrs.**

Theoretical and experimental literature dealing with small group communication processes. Prerequisite: INF 110, 297 rec., or consent of instructor.

**324 THEORY AND RESEARCH IN PERSUASION**

A survey of contemporary theoretical and empirical literature dealing with the question of how an individual's attitudes, beliefs, and solid behaviors are affected by communication. Prerequisite: INF 110 or consent of instructor.

**328 CONTEMPORARY RHETORICAL THEORY****3 sem. hrs.**

Recent rhetorical theories and theorists are discussed and evaluated.

**329 ORGANIZATIONAL COMMUNICATION****3 sem. hrs.**

An examination of theoretical and experimental literature dealing with communication in an organizational setting. Prerequisite: INF 110 rec. or consent of instructor.

**330 DIRECTING THE FORENSIC PROGRAM****3 sem. hrs.**

Theoretical and procedural aspects of organizing and maintaining a debate and individual speaking events program. Prerequisite: INF 110 rec. or consent of instructor.

**360 MASS COMMUNICATION: THEORY AND EFFECTS****3 sem. hrs.**

A critical examination of channel and receiver variables and their effects on the act of moving information through a given medium. Students participate in at least one research project of their design. Prerequisite: INF 160 rec.



**361 REGULATION OF THE COMMUNICATION INDUSTRY****3 sem. hrs.**

The legal background of mass media, specific laws affecting media operations and industry efforts at self regulation. Prerequisite: INF 160 rec.

**363 PRIVACY AND INFORMATION PROCESSING****3 sem. hrs.**

An examination of concepts about individual privacy as related to the processing of information in a technological society. The study of institutional procedures with regard to the dissemination of sensitive information.

**364 BROADCAST MANAGEMENT****3 sem. hrs.**

The role and functions of broadcast media managers in society. Prerequisites: INF 160, 264 rec.

**370 PSYCHOLOGY OF LANGUAGE****3 sem. hrs.**

Theories and experimental research relating to the development and functions of language. Prerequisite: INF 110, 297 rec., or consent of instructor.

**371 POLITICAL COMMUNICATION****3-4 sem. hrs.**

Basic theory and research relating to political campaign communication. Special attention is paid to the persuasive process of political campaigning focusing upon the role of the media, the candidate, image creation, and other selected topics on political campaign communication. Prerequisite: 6 hrs. INF or 6 hrs. POS or consent of instructor.

**380 DIRECTED PROJECTS****1-3 sem. hrs.**

Supervised practical professional experience under the guidance of professionally qualified personnel. Prerequisite: Consent of instructor.

**381 PROBLEMS IN THE TEACHING OF COMMUNICATION****3 sem. hrs.**

Identification of common and unique problems in teaching communication concepts and skills. Approaches to resolving classroom problems.

**385 EDITORIAL AND FEATURE WRITING****3 sem. hrs.**

Advanced training in writing feature articles and editorials for newspapers and magazines. Prerequisite: Consent of instructor.

**422 PROSEMINAR IN COMMUNICATION****3 sem. hrs.**

Introduction to theory and empirical research in communication. Includes units on empirical research; methods in communication; an overview and analysis of the process of communication in general; theory and research in language behavior; the analysis of individual units of communication; and theory and research dealing with the special consideration imposed by group size, group complexity, and the available media. Must be taken by first year graduate students who have not had equivalent course.

**424 SEMINAR IN PERSUASION****3 sem. hrs.**

The examination of selected areas of theory and research in persuasion. Prerequisite: SP 324 or consent of instructor.

**481 SEMINAR IN COMMUNICATION EDUCATION****3 sem. hrs.**

Examination of recent developments in theory and research in communication education.

**491 INTERNSHIP IN COLLEGE TEACHING IN COMMUNICATION****3 sem. hrs.**

Credit for the course is given in C&I (see C&I 491).

**492 SEMINAR IN COMMUNICATION THEORY****3 sem. hrs.**

Advanced examination of selected areas of communication theory. Prerequisite: Consent of instructor.

**493 SEMINAR IN MASS COMMUNICATION****3 sem. hrs.**

May be repeated to a total of six semester hours if different material is covered. Prerequisite: INF 360 or consent of instructor.

**494 SEMINAR IN SMALL GROUP COMMUNICATION****3 sem. hrs.**

May be repeated to a total of six semester hours if different material is covered. Prerequisite: INF 323 or consent of instructor.

**495 SEMINAR IN ORGANIZATIONAL COMMUNICATION****3 sem. hrs.**

May be repeated to a total of six semester hours if different material is covered. Prerequisite: INF 329 or consent of instructor.

**496 SEMINAR IN RHETORICAL THEORY****3 sem. hrs.**

May be repeated to a total of six semester hours if different material is covered.

**497 INTRODUCTION TO RESEARCH METHODOLOGY****3 sem. hrs.**

Introduction to methods of scholarly research and the critical evaluation of research in communication. Must be taken by first year graduate students. May be repeated to a total of six semester hours by advanced students as they pursue special research problems.

**498 PROFESSIONAL PRACTICE IN COMMUNICATION****9 hrs. maximum.**

Practical professional experience in business or government related to the student's individualized masters degree program under the supervision of qualified faculty and agency personnel. See Dept. advisor regarding internship requirements.

**499 MASTER'S THESIS****1-6 sem. hrs.**

## MATHEMATICS

**Chairperson:** Albert D. Otto. Office: Stevenson Hall 313.

**Teaching Staff:** K. Berk, F. Brown, L. Brown, S. Clemens, J. Dossey, O. Edge, L. Egan, S. Friedberg, K. Ha, R. Hathway, L. Hersberger, A. Insel, C. Morris, P. O'Daffer, A. Otto, J. Parr, K. Retzer, R. Ritt, T. Shilgalis, R. Speiser, L. Spence, C. Thornton, A. Trojanowski, B. Tucker, C. Vanden Eynden.

## Programs Offered

The Department of Mathematics offers varied programs leading to the Master of Arts, Master of Science and Doctor of Arts degrees. Areas of concentration are available at the master's level for persons interested in careers in secondary school and two-year college teaching, statistics, computer science, applied mathematics, and further graduate study. A doctoral program is offered to persons seeking advanced training for teaching in two-year or four-year colleges. A number of teaching assistantships and instructorships are available.

## Master's Degree Programs

For either the Master of Arts or the Master of Science degree, the student must meet the general university requirements listed elsewhere in this catalog. Two options, requiring 39 and 32 hours, are available. See below. The Graduate Record Examination Aptitude Test or the Advanced Test in Mathematics is required for admission.

Before completion of the degree, the student must a) take 317 and at least one of 315 or 316; b) take at least one course from each of the sequences 347-348 and 350-351; and c) complete at least one of the sequences in (b). Entering students will be expected to have completed at least two of the courses in (a) or (b) as part of an undergraduate mathematics major. Courses equivalent to those listed above will be accepted. A student may elect either of the following options:

*Option I:* Of the 39 hours required, at least 30 must be in mathematics. At least 18 of the 39 must be at the 400 level, with at least 12 of these in mathematics, including at least one course in algebra or analysis. Neither a thesis nor a comprehensive examination is required, but the student must maintain a 3.2 grade point average.

*Option II:* Of the 32 hours required, at least 24 must be in mathematics. At least 15 of the 32 must be at the 400 level, with at least 10 of these in mathematics. One of the following is required: a written examination over two areas, one of which must be in algebra or analysis; an oral presentation on a topic the student has investigated under the direction of a faculty member.

*Areas of concentration:* In consultation with the Graduate Director, a student may concentrate on a particular area of mathematics by electing courses from the suggested lists below:

(1) Further graduate work in mathematics: 348, 349, 407, 408, 447, 448, 449, 475, 476.

(2) Mathematics education: 310, 314, 320, 321, 323, 362, 410, 414, 421, 422.

(3) Statistics: 308, 351, 450, 451, 452, 453, 455, 458.

(4) Computer science: 308, 363, 364, 366, 370, 383, 384, 463.

(5) Applied mathematics: 308, 325, 335, 340, 341, 349, 370, 440, 441.

Persons desiring to specialize in mathematics teaching at the junior or senior high school level may elect as an alternative the Master of Science in Education degree

through the Department of Curriculum and Instruction, with the co-operation of the Mathematics Department. Persons desiring to specialize in elementary or junior high school mathematics teaching may elect the degree of Master of Science in Education with specialization in Mathematics through the Department of Curriculum and Instruction.

## Doctor of Arts Program

A doctoral program is offered to persons seeking advanced training for teaching in a two-year or four-year college. Admission to the program ordinarily requires previous successful teaching experience and a level of mathematical training equivalent to a master's degree in mathematics or mathematics education.

Candidates for admission who do not meet these requirements or whose career objective is related to teaching in other settings will be considered on an individual basis.

Each candidate will be expected to complete a dissertation which is original and has relevance to the profession of teaching in the community college. The prospectus for the dissertation can be officially considered and accepted by the department only after the student has passed the Qualifying Evaluation; to pass this Evaluation each student must demonstrate substantial competence in 1) Algebra, 2) Real Analysis, 3) Geometry/Topology, 4) Mathematics Education. This competence will be demonstrated in algebra, analysis, and mathematics education by the successful completion of an oral examination in each area. Competence in the Geometry/Topology area may be shown by either of two methods: a) completion of the two courses elected in Area 3 with grades of A, or b) successful completion of a written or oral examination over the contents of the two courses selected from Area 3. The Qualifying Evaluation requirements must be satisfied within a two-year period which commences with the first exam. A student will be allowed one re-examination in at most two of the four areas. A breadth of background including some mathematics applications will also be required. Each student will be expected to demonstrate academic proficiency in four one-hour units in the Higher Education Sequence and will be expected to fulfill all the requirements of the Graduate School.

## Courses

### 301 MATHEMATICAL TOPICS FOR ELEMENTARY TEACHERS

3 sem. hrs.

Significant problems, viewpoints, and trends in teaching of arithmetic. Research related to organization, content, and techniques in this field. Prerequisite: MAT 151 or 152 req or consent of instructor. Not for credit maj min. Includes clinical experience. Materials charge.

### 302 MATHEMATICAL TOPICS FOR JUNIOR HIGH TEACHERS

2 sem. hrs.

Problems, viewpoints, and trends in teaching junior high school mathematics. Implication of logic and foundations of mathematics for teaching in this field. Prerequisite: MAT 151 or 152 or 115 req., MAT 202 or teaching experience, not for credit maj min. Materials charge.



### 303 DIAGNOSIS AND REMEDIATION OF ELEMENTARY MATH LEARNING PROBLEMS

3 sem. hrs.

Analysis of diagnostic and remediation procedures utilizing concrete materials for children experiencing difficulties in elementary school mathematics. Prerequisites: MAT 151 and 201 or consent of instructor. Materials charge. Includes clinical experience. Not for credit maj min.

### 308 MATRIX THEORY

2 sem. hrs.

Computational theory of matrices, matrix operations, inversion, solution to linear systems, eigenvalues and eigenvectors. Prerequisites: MAT 175 or 220, and FORTRAN or PL/1 req.

### 310 NUMBER THEORY

3 sem. hrs.

Divisibility, primes, unique factorization, numerical functions, congruences, Diophantine equations, other topics. Prerequisite: MAT 175 or 205 req.

### 312 HIGHER GEOMETRY

3 sem. hrs.

Investigation of affine and projective geometry from an algebraic standpoint; metric structures. Prerequisite: MAT 175.

### 313 HIGHER GEOMETRY II

3 sem. hrs.

Synthetic and analytic projective geometry, projective conics. Prerequisite: MAT 175.

### 315 INTRODUCTION TO ABSTRACT ALGEBRA I

3 sem. hrs.

Introduction to rings, including integers, fields, polynomials, homomorphisms, ideals, quotient rings, factorization, irreducibility. Prerequisite: MAT 175 req.

### 316 INTRODUCTION TO ABSTRACT ALGEBRA II

3 sem. hrs.

Introduction to groups, including permutation, symmetry and matrix groups, homomorphisms, normality, quotient groups, applications. Prerequisite: MAT 175 req., MAT 315 rec.

### 317 LINEAR ALGEBRA

4 sem. hrs.

Vector spaces, linear transformations and matrices, inner products, eigenvalues and eigenvectors, Jordan canonical form. Applications to geometry, the physical and social sciences. Prerequisite: MAT 175 req.

### 320 HISTORY OF MATHEMATICS TO 1600

2 sem. hrs.

Emphasis on Greek geometry, and growth of algebra and algebraic notation from early Mesopotamia through Renaissance. Prerequisite: MAT 115 rec.

### 321 HISTORY OF MATHEMATICS, 1600 TO PRESENT

2 sem. hrs.

Development of modern mathematics (analysis algebra, geometry) and the people in the forefront, beginning with Descartes. Emphasis on 19th century. Prerequisite: MAT 117 req.

### 323 MATHEMATICS FOR THE SECONDARY SCHOOL

3 sem. hrs.

Problems in selection, placement, and teaching of secondary mathematics topics. Language and symbolism.

Analysis of recent trends and practices. Includes clinical experiences. Prerequisites: MAT 211 and 315 or conc reg and C&I 200 or 215 req. Resource materials charge.

### 325 FINITE MATHEMATICAL STRUCTURES

2 sem. hrs.

Linear programming, game theory, network analysis, and related topics. Applications. Prerequisite: MAT 175 or 220 req.

### 335 ADVANCED CALCULUS

4 sem. hrs.

Calculus of functions of several variables; Taylor's series of several variables, maxima and minima, Lagrange multipliers, inverse and implicit function theorems, multiple integration, line integrals, Green's and Stokes' theorems. Prerequisite: MAT 175 req.

### 340 DIFFERENTIAL EQUATIONS I

3 sem. hrs.

First order differential equations, linear differential equations, series solutions, systems of linear differential equations, applications. (MAT 341 requires MAT 175.) Prerequisites: MAT 117 req. or consent of instructor.

### 341 DIFFERENTIAL EQUATIONS II

3 sem. hrs.

Numerical solutions, Laplace transform, theory of first order equations, theory of linear differential equations, Sturm theory, Sturm-Liouville theory, Fourier series, introduction to partial differential equations with applications to the heat and wave equations. Prerequisites: MAT 340 and 175 or 220 req.

### 345 INTRODUCTION TO DIFFERENTIAL GEOMETRY

3 sem. hrs.

Curves and surfaces in Euclidean three-space, properties of a surface, tensor analysis, Riemannian geometry. Prerequisite: MAT 117 and 175 req. or consent of instructor.

### 347 INTRODUCTION TO REAL ANALYSIS I

4 sem. hrs.

The real number system, topology of metric spaces, sequences, continuous functions, uniform convergence, differentiation, Taylor's Theorem, Riemann integration, the fundamental theorem of calculus, infinite series, power series, the implicit function theorem. Prerequisite: MAT 117 rec. and 175 rec.

### 348 INTRODUCTION TO REAL ANALYSIS II

3 sem. hrs.

Additional topics in real analysis, including Stone-Weierstrass Theorem, equicontinuity and Arzela's theorem, functions of several variables, Fourier series. Prerequisite: MAT 347 req.

### 349 COMPLEX ANALYSIS I

3 sem. hrs.

Analytic function theory, complex plane, differentiability and analyticity, Cauchy's theorem. Taylor series and Laurent series. Prerequisite: MAT 117 req.

### 350 MATHEMATICAL STATISTICS I

3 sem. hrs.

Sample spaces, random variables, frequency functions, linear functions of random variables, nature of statistical functions, moment generating functions, applications. Prerequisite: MAT 116 req. or consent of instructor.

### 351 MATHEMATICAL STATISTICS II

3 sem. hrs.

Correlation and regression equations, development of Chi-square, Student's *t* and *F* distributions, likelihood ratio

tests, analysis of variance and non-parametric methods. Prerequisite: MAT 117 and 350 req.

### 356 STATISTICAL COMPUTING

4 sem. hrs.

The application of the SAS, SPSS, and BMDP programs to real data, with emphasis on regression, and analysis of variance, discriminant analysis, and factor analysis. Prerequisite: Two Statistics courses required some facility with matrices.

### 362 COMPUTER-EXTENDED MATHEMATICS FOR SECONDARY SCHOOLS

3 sem. hrs.

Techniques of illustrating, deriving, and discovering mathematical concepts of the secondary curriculum by digital computer and calculators. Prerequisites: Calculus and a programming course.

### 366 BOOLEAN ALGEBRA AND LOGICAL DESIGN

3 sem. hrs.

Switching circuits, Boolean algebra as model for propositional calculus, logical design of digital computers, logical programming. Prerequisite: MAT 175 or 220 rec.

### 370 NUMERICAL ANALYSIS

3 sem. hrs.

Interpolation and approximation, error analysis, integration, techniques for solving differential equations, root finding. Prerequisites: MAT 175 or 220 and Fortran or PL/I req.

### 372 INTRODUCTION TO FINITE AUTOMATA AND FORMAL LANGUAGES

3 sem. hrs.

Finite deterministic automata including sequential and 2-way multitape automata. Formal languages and grammars, general systems theory. Prerequisite: MAT 315 rec. or consent of instructor.

### 375 COMBINATORIAL TOPOLOGY

3 sem. hrs.

Introduction to algebraic topology. Topics include compactness and connectedness, continuous vector fields and critical points, plane homology, the Jordan Curve Theorem, and surfaces. Prerequisite: MAT 117 req. and 175 rec.

### 390 INDEPENDENT STUDY

1-3 sem. hrs.

### 401 CURRENT RESEARCH IN SCHOOL MATHEMATICS

3 sem. hrs.

Analysis of research in mathematics education and its implications for instruction in school programs. Prerequisites: C & I 410 or consent of instructor.

### 403 THEORIES OF MATHEMATICS LEARNING

3 sem. hrs.

Overview of theories of how children learn mathematics and the implications of these theories for classroom teaching and research.

### 404 MATHEMATICS LEARNING IN EARLY CHILDHOOD

3 sem. hrs.

Analysis of mathematical learning for young children (toddler—early primary) in the context of current research and theories of learning. Includes clinical experiences. Prerequisite: Teacher certification or consent of instructor. Resource center fee.

### 407 ABSTRACT ALGEBRA I

4 sem. hrs.

Group theory including the Sylow theorems and other advanced topics; ring theory. Prerequisite: MAT 316 or consent of instructor.

### 408 ABSTRACT ALGEBRA II

4 sem. hrs.

Modules with the canonical decomposition theorems; field and Galois theory. Prerequisite: MAT 407 or consent of instructor.

### 410 TOPICS IN NUMBER THEORY

3-4 sem. hrs.

Topics vary, but are often chosen from Diophantine equations, continued fractions, Diophantine approximations. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 310 or consent of instructor.

### 414 TOPICS IN ADVANCED GEOMETRY

2-4 sem. hrs.

Topics may include advanced differential geometry, combinatorial problems in geometry, convexity and Helly's Theorem, sets of constant width, isoperimetric problems, and others which may vary among different instructors. Prerequisite: Consent of instructor.

### 421 TOPICS IN ALGEBRA FOR TEACHERS

3 sem. hrs.

Problems in teaching of secondary school algebra. Investigation of reports, research, and recent trends in this area. Prerequisites: MAT 175 or 315.

### 422 TOPICS IN GEOMETRY FOR TEACHERS

3 sem. hrs.

Problems in teaching secondary school geometry. Investigation of reports, research, and recent trends. Objectives and content of secondary school geometry. Prerequisite: MAT 211.

### 440 DIFFERENTIAL EQUATION III

3 sem. hrs.

Linear and nonlinear systems. Picard, Lindelöf, and Peano existence theorems. Extension of solutions, oscillation and comparison theorems, asymptotic behavior. Prerequisite: MAT 341 or consent of instructor.

### 441 DIFFERENTIAL EQUATIONS IV

3 sem. hrs.

Stability, Lyapunov functions, perturbation theory. Poincaré-Bendixson theory, periodic solutions. Prerequisite: MAT 440.

### 447 REAL ANALYSIS I

4 sem. hrs.

Extension of Riemann integral; Daniell, Lebesgue and Stieltjes integrals; measure, extension of additive set functions; LP spaces; applications to analysis and probability. Prerequisite: MAT 317 and 347.

### 448 REAL ANALYSIS II

4 sem. hrs.

Abstract complete normed linear vector spaces and their realizations; linear operators; applications to numerical analysis, integral and differential equations. Prerequisite: MAT 447.

### 449 COMPLEX ANALYSIS II

4 sem. hrs.

Conformal mappings, Riemann surfaces, meromorphic functions, infinite products of holomorphic functions, and integration of differential forms. Prerequisite: MAT 347 or 349.



**450 FINITE SAMPLING I****3-4 sem. hrs.**

Application and theory of sampling, mathematical sampling; simple, stratified, and cluster. Evaluation of plans with respect to precision and cost. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 350.

**451 FINITE SAMPLING II****3 sem. hrs.**

Analysis of sampling designs from numerous fields of application. Use of basic sampling theorems in development of efficient models. Prerequisite: MAT 450.

**452 THEORY OF STATISTICS****3-4 sem. hrs.**

Order statistics, limiting distributions, sufficient statistics, likelihood ratio test, distribution of certain quadratic forms in analysis of variance. Additional topics and applications will be covered in the 4-hour version. Prerequisites: MAT 116 and 351.

**453 REGRESSION ANALYSIS****3-4 sem. hrs.**

Linear regression models and the F-test. Model Fitting; analysis of residuals, transformations, and the selection of variables. The analysis of variance via regression. Additional topics and applications will be covered in the 4-hour version. Prerequisites: MAT 175 and 351.

**455 STOCHASTIC PROCESSES****3-4 sem. hrs.**

Generating and characteristic functions of discrete probability density functions. Random walk and stochastic processes. Introduction of Markov chains. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 351.

**458 THE DESIGN OF EXPERIMENTS****3-4 sem. hrs.**

Linear models and the logic of planned experimentation, choice of statistical technique, and analysis of data. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 351.

**463 THEORY OF COMPUTABILITY AND RECURSIVE FUNCTIONS****3 sem. hrs.**

Recursive and recursively enumerable functions, Turing machines, Post systems, examples of decidable and unsolvable problems. Prerequisite: MAT 315 or consent of instructor.

**475 TOPOLOGY I****4 sem. hrs.**

Topological spaces and continuous functions, connectedness, separation and covering axioms. Prerequisite: MAT 347.

**476 TOPOLOGY II****4 sem. hrs.**

Metric spaces, convergence, compactness, homotopy and the fundamental group. Prerequisite: MAT 475.

**480 FOUNDATIONS OF MATHEMATICS****3-4 sem. hrs.**

Cardinals, ordinals, and structure of real number system; interaction of analysis, algebra, number theory, and topology. Additional topics and applications will be covered in the 4-hour version. Prerequisite: Consent of instructor.

**490 SEMINAR IN MATHEMATICS****1-4 sem. hrs.**

Topics in theoretical and applied mathematics discussed by staff and visiting lecturers; individual study and student papers. May be repeated for credit with different subject matter. Total credit earned may be up to eight semester hours. Prerequisite: Consent of instructor.

**491 INTERNSHIP IN COLLEGE TEACHING IN MATHEMATICS****3 sem. hrs.**

Credit for the course is given in C&I (see C&I 491). Prerequisites: MAT 315 and 347; or consent of instructor.

**493 PROSEMINAR****1-3 sem. hrs.**

Supervised presentation by students of recently published mathematics and discussion of problems related to reading the mathematics literature. Prerequisite: Consent of Doctoral Committee.

**499 MASTER'S THESIS****1-6 sem. hrs.****530 MODULES IN MATHEMATICS EDUCATION****Variable credit**

Modules in mathematics education including mathematics curriculum, analysis of mathematics learning, general methods of teaching mathematics, strategies for teaching mathematics, evaluation in mathematics, and diagnosis and remediation of learning difficulties in mathematics. Modules are selected in consultation with adviser. Each module carries from one to three hours of credit. Prerequisite: Approval of Doctoral adviser.

**581 SEMINAR IN RESEARCH AND DEVELOPMENT IN MATHEMATICS EDUCATION****3 sem. hrs.**

Analysis of research in strategies or methods for teaching mathematics and in the learning of mathematics. Analysis of curriculum projects as they relate to these research findings. Analysis of current research and consideration of the implications of this research for new curricular innovations, and for classroom teaching. Prerequisite: MAT 530 or consent of instructor.

**585 SEMINAR IN ALGEBRA****1-3 sem. hrs.**

May be repeated to a total of 6 semester hours if different material is covered. Prerequisite: MAT 408 or consent of instructor.

**587 SEMINAR IN ANALYSIS****1-3 sem. hrs.**

May be repeated to a total of 6 semester hours if different material is covered. Prerequisite: MAT 448 or consent of instructor.

**588 SEMINAR IN TOPOLOGY****1-3 sem. hrs.**

May be repeated to a total of 6 semester hours if different material is covered. Prerequisite: MAT 476 or consent of instructor.

**599 DISSERTATION****Variable credit**

Research, library search, curriculum study, and writing related to Doctor of Arts dissertation requirement. Approval of the chairperson of the department is required. Prerequisite: Consent of Doctoral Adviser.

## PHILOSOPHY

**Chairperson:** Kenton Machina. Office: 412 Stevenson Hall.

**Teaching Staff:** J. Gowen, K. Kennard, K. Machina.

**Note:** Graduate degrees are not granted in the Department of Philosophy, but course work is available as supplemental study or as electives.

### Courses

#### 305 TWENTIETH CENTURY PHILOSOPHY

3 sem. hrs.

Examination of major philosophical movements of the 20th century focusing on representative figures. Prerequisite: PHI 254 or 255. May be repeated if different content.

#### 350 TOPICS IN THE HISTORY OF PHILOSOPHY

3 sem. hrs.

Intensive examination of some major figure or movement in the history of philosophy such as Plato, Kant, or British Empiricism. Prerequisite: One Philosophy course.

#### 360 PHILOSOPHY OF MIND

3 sem. hrs.

Dualistic, materialistic, and behavioristic theories of mind. Knowledge of other minds. Mental concepts like intention, dreaming, memory, and action. Prerequisite: Two Philosophy courses.

#### 361 THEORY OF KNOWLEDGE

3 sem. hrs.

Classical and contemporary theories of knowledge. Problems of meaning, truth, certainty, a priori knowledge, induction, and perception. Prerequisite: Two Philosophy courses.

#### 362 METAPHYSICS

3 sem. hrs.

Classical and contemporary metaphysical theories. Problems of substance, change, universals, time, space, mechanism, teleology, and freedom. Prerequisite: Two Philosophy courses or consent inst.

#### 390 INDEPENDENT STUDY

1-3 sem. hrs.

Prerequisites: One Philosophy course or consent of inst. and Dept. Chairperson.

## PHYSICS

**Chairperson:** Harold J. Born. Office: 311 Moulton Hall.

**Teaching Staff:** H. Born, J. Crew, C. Frahm, K. Jesse, M. Luther, J. Schroer, R. Young.

**Note:** Graduate degrees are not granted in the Department of Physics, but course work is available as supplemental study or as electives.

### Courses

#### 301 PROBLEMS IN THE TEACHING OF HIGH SCHOOL PHYSICS

3-4 sem. hrs.

Modern methods and problems confronting teachers

of high school physics. Includes observation and clinical experiences for 4 hrs. credit. Prerequisites: 16 hrs. in PHY, C&I 200 (6 hrs.) or 215 (2 hrs.) or conc. reg.

#### 315 ASTROPHYSICS

3 sem. hrs.

Planetary and stellar astronomy; structure and evolution of stars and galaxies; cosmology. Prerequisites: PHY 225 and 230 req.

#### 320 MECHANICS

3 sem. hrs.

Transformations of coordinate systems; oscillations; calculus of variations; Lagrangian and Hamiltonian dynamics; rigid body dynamics. Prerequisites: PHY 220 and MAT 340 req.

#### 340 ELECTRICITY AND MAGNETISM

3 sem. hrs.

Boundary value problems in electro and magnetostatics; Maxwell's equations; electromagnetic waves and radiation. Prerequisite: PHY 240 and MAT 340 req.

#### 355 MOLECULAR AND SOLID STATE PHYSICS

3 sem. hrs.

Introduction to the spacial, dynamic, and electric properties of condensed matter. Prerequisites: PHY 252, 225 req.

#### 360 NUCLEAR PHYSICS

3 sem. hrs.

Basic nuclear properties; radioactivity; low energy nuclear reactions; interaction of particles and radiation with matter; nuclear models. Prerequisite: PHY 252 req.

#### 375 ELECTRONICS FOR SCIENTISTS

3 sem. hrs.

The operation and design of electronic circuits and electronic instruments. Prerequisite: PHY 109 or equivalent.

#### 382 RELATIVITY

3 sem. hrs.

Relativistic mechanics, optics, and electrodynamics. Tensors and introduction to general relativity including the Schwarzschild solution and gravitational waves. Prerequisites: PHY 220, 240, 252.

#### 384 INTRODUCTION TO QUANTUM MECHANICS

3 sem. hrs.

Mathematical formulation of quantum theory and applications to simple systems. Prerequisites: PHY 252 and MAT 340.

#### 385 ATOMIC PHYSICS

3 sem. hrs.

Application of quantum theory to atomic systems including angular momentum theory, atomic structure, and atomic transitions. Prerequisites: PHY 384 and consent of instructor.

#### 387 METHODS OF MATHEMATICAL PHYSICS

3 sem. hrs.

Vector calculus; partial differential equations of science and engineering; Fourier series and integrals; complex variables. Prerequisites: PHY 220 and 240.

#### 388 PHYSICS AND COMPUTERS

3 sem. hrs.

Solution of physics problems by computer. Problems include electric circuits, classical and quantum waves, Monte Carlo techniques, data analysis. Prerequisites: MAT 116, 164 (FORTRAN); PHY 109 or 111.



# POLITICAL SCIENCE

**Chairperson:** Hibbert R. Roberts. Office: Schroeder Hall 306.

**Teaching Staff:** H. Chung, T. Eimmermann, A. Elder, G. Gordon, J. Gueguen, J. Honan, R. Hunt, G. Kiser, W. Kohn, W. Mead, A. Monroe, R. Payne, R. Pope, F. Roberts, H. Roberts, J. Verner, T. Wilson, H. Zeidenstein.

## Master's Degree in Political Science

The department offers work leading to the following degrees: M.A., M.S. Students may take either a comprehensive program, which requires courses in five sub-fields, or a thesis program which requires courses in at least three sub-fields, or a public service option which requires courses in at least two sub-fields and a thesis.

## Courses

### 306 REGIONAL AND AREA STUDIES

1-9 sem. hrs.

Intensive study of particular lands, environments, cultures, and peoples. Prerequisite: Consent of instructor. Usually given cooperatively with other departments.

### 310 VOTING AND ELECTIONS

3 sem. hrs.

Intensive investigation of U.S. voting behavior and electoral process; includes instruction in analysis techniques.

### 312 PUBLIC OPINION

3 sem. hrs.

Includes attention to social and psychological bases of public opinion, current trends, methods of measurement, and opinion-policy linkages. Prerequisite: POS 105 or SAS 106.

### 313 COLLECTIVE DECISION-MAKING

3 sem. hrs.

Game theory approach to decision-making in large groups, including legislatures, unions, oligopolies, bureaucratic organizations, and international negotiations.

### 315 CONSTITUTIONAL LAW: FUNCTIONS AND POWERS

3 sem. hrs.

Major Supreme Court decisions on federalism, separation of powers, taxation, commerce, voting, and citizenship.

### 316 CONSTITUTIONAL LAW: CIVIL LIBERTIES

3 sem. hrs.

Major Supreme Court decisions involving rights of the accused, discrimination, free expression, and freedom of religion. (A Legal Studies Specialization course).

### 318 ADMINISTRATIVE LAW

3 sem. hrs.

An overview of administrative law topics such as legislative, executive, and judicial control of administrative actions, public and private access to information, the administrative hearing process, and other due process concerns. (A Legal Studies Specialization course).

### 321 COMMUNITY POWER AND POLITICS

3 sem. hrs.

Introduction to community research techniques. Substantive analysis of community power studies. Emphasis on local government structure and politics and the structure and politics of community social services.

### 329 INTERGOVERNMENTAL RELATIONS

3 sem. hrs.

Federalism in theory and practice, focusing on U.S.; politics and policy in intergovernmental contexts: recent initiatives and current problems.

### 330 PROBLEMS OF PUBLIC ADMINISTRATION

3 sem. hrs.

Varied approaches to problems relevant to public policy, organization development, management, staff, or personnel concerns, or applied behavioral techniques. May be repeated if content is different.

### 331 PUBLIC PERSONNEL ADMINISTRATION

3 sem. hrs.

The personnel process in American bureaucracy: matching the individual and the job; employer-employee relations; employee motivation; problems and prospects.

### 345 ASIAN POLITICS

3 sem. hrs.

Comparative studies in the government and politics of selected Asian nations. May be repeated. Cons inst.

### 347 LATIN AMERICAN POLITICS

3 sem. hrs.

Politics of development and regional integration in South and Central America, using selected countries as examples. May be repeated if content different.

### 348 VIOLENCE AND MODERNIZATION

3 sem. hrs.

Theoretical analysis of major political "breakdowns" (turmoil to civil war) in contemporary societies, particularly those in the developing world.

### 351 INTERNATIONAL LAW

3 sem. hrs.

Political nature, legal principles, and juridical procedures and cases of contemporary international law.

### 354 SOVIET FOREIGN POLICY

3 sem. hrs.

A study of the strengths and weaknesses of Soviet foreign policy. Focuses on the foreign policy decision-making system, on intentions and capabilities.

### 356 AMERICAN FOREIGN POLICY

3 sem. hrs.

An analysis of the formulation, implementation, and content of American foreign policy.

### 362 CLASSICAL POLITICAL PHILOSOPHY

3 sem. hrs.

Introduction to the origin and development of inquiry about man's life in political association. May be repeated if content different.

### 364 CONTEMPORARY POLITICAL THOUGHT

3 sem. hrs.

Survey of the major political theories between the end of the 19th century (since Marx) and the present.

### 381 INTRODUCTION TO PARALEGALISM

3 sem. hrs.

An analysis of the role of paralegals in the judicial process, and a study of the paralegal skills necessary to qualify for participation in POS 391. Consent of instructor.

### 390 PUBLIC SERVICE INTERNSHIP

1-6 sem. hrs.

Planned, supervised experience in a governmental or community organization, providing on-the-job training and introduction to public service careers. Consent of instructor.

**391 PARALEGAL INTERNSHIP**

1-6 sem. hrs.

The course provides field experience for students working in internships involving paralegal skills. Prerequisites: POS 381 and consent of instructor. May be repeated for a maximum of 6 semester hours.

**Seminars**

The content of the following seminars will vary according to the interests of the particular instructor offering the course. Provided different material is covered, a seminar may be repeated.

**411 SEMINAR IN AMERICAN POLITICS**

3 sem. hrs.

**421 SEMINAR IN STATE AND LOCAL POLITICS**

3 sem. hrs.

**422 SEMINAR IN URBAN POLITICS**

3 sem. hrs.

**431 SEMINAR IN PUBLIC ADMINISTRATION**

3 sem. hrs.

**432 SEMINAR IN JUDICIAL POLITICS**

3 sem. hrs.

**441 SEMINAR IN COMPARATIVE POLITICS**

3 sem. hrs.

**451 SEMINAR IN INTERNATIONAL RELATIONS**

3 sem. hrs.

**452 SEMINAR IN INTERNATIONAL ORGANIZATIONS AND LAW**

3 sem. hrs.

**461 SEMINAR IN POLITICAL THOUGHT**

3 sem. hrs.

**490 READINGS IN POLITICAL SCIENCE**

1-3 sem. hrs.

For the student who would benefit from more specialized or independent study adapted to his/her background and needs. To be taken only with permission of the student's adviser.

**491 INTERNSHIP IN COLLEGE TEACHING IN POLITICAL SCIENCE**

3 sem. hrs.

Credit for the course is given in C&I (see C&I 491).

**497 INTRODUCTION TO RESEARCH METHODOLOGY**

3 sem. hrs.

**499 MASTER'S THESIS**

1-6 sem. hrs.

**PSYCHOLOGY**

**Chairperson:** Macon Williams. Office: 435E DeGarmo Hall.

**Teaching Staff:** R. Berger, R. Bergner, L. Berk, D. Carrington, V. Cashen, D. Chalmers, P. Chesebro, R. Crist, D. DeSantis, W. Friedhoff, N. Gamsky, N. Gill, W. Gnagey, B. Goebel, M. Goldstein, D. Graybill, A. Grupe, D. Hardwick, R. Hogan, D. Horgan, A. House, S. Hutter, I. Jacks, J. Johnson, D. Lamb, K. Leicht, E. Lemke, M. Lewis, L. Manelis, G. McCoy, B. Moore, G. Ramseyer, G. Redding, G. Reeder, R. Rumery, L. Schmaltz, A. Sodetz, M. Swerdlik, W. Vernon, M. Vinitsky, J. Williams, M. Williams.

The Department of Psychology offers the MA and MS in Psychology as well as the MA and MS in School Psychology. It is possible for the student to select one of a number of sequences the department offers: Experimental, Organizational-Industrial, Educational, Measurement-Statistics, Counseling, Clinical, and School Psychology. Departmental requirements and descriptions of these sequences are given below.

All graduate students are required to take Psychology 418, 420, and 440 or 442. Although required courses may be waived, students must still earn a minimum total of 32 hours.

Sequences offered by the department are briefly described below. Each sequence has additional and specific course requirements. For more specific information interested students are requested to send their inquiries to the chairperson of the department.

**Experimental**

This sequence is designed for students who wish to pursue disciplinary study with the plan of applying for doctoral study, teaching at the community college level, etc.

**Organizational-Industrial**

Students selecting this sequence can gain preparation for positions in personnel, training, management, labor relations, or to enhance their effectiveness in their present position.

**Educational**

This sequence is designed for teachers who already possess reasonable knowledge of their major teaching field but who wish to know more about the teaching-learning process and human behavior such that it will improve their effectiveness in teaching-learning situations.

**Measurement-Statistics**

Students selecting this sequence can gain knowledge which will facilitate careers in computer programming, educational evaluation, advanced graduate study, psychometrics, teaching.

**Counseling**

This sequence requires two years of study and is designed to prepare students for counseling positions in settings such as community colleges, mental health centers, family service agencies, rehabilitation centers, etc.

**Clinical**

This sequence requires two years of study and is designed to prepare students for positions in settings such as mental health centers, family service agencies, other mental health facilities, and college and community settings. A limited number of students may plan a program to emphasize child and family treatment.

**School**

This program requires two years of study and is designed to prepare students to function as school psycholo-



gists in public schools. Successful completion of the program allows students to meet all but the internship requirement for certification as school psychologists by the State of Illinois.

The department operates a psychological clinic for the assessment and treatment of children and families. Some graduate students enrolled in the practica spend part of their time working in this center.

## Courses

### 301 DEVELOPMENTAL PSYCHOLOGY OF CHILDHOOD (Formerly DEVELOPMENTAL PSYCHOLOGY I)

3 sem. hrs.

Motor, cognitive, and emotional development and personality growth of children, birth through pre-adolescence. Prerequisite: PSY 111.

### 302 DEVELOPMENTAL PSYCHOLOGY OF ADOLESCENCE (Formerly DEVELOPMENTAL PSYCHOLOGY II)

3 sem. hrs.

Motor, cognitive, and emotional development and personality growth of the adolescent. Prerequisite: PSY 111.

### 303 ADULT DEVELOPMENT AND AGING

3 sem. hrs.

A study of physical, cognitive, and personality development during adulthood, with emphasis on theories, empirical data, research methods, and current issues. To receive graduate credit for the course, students will complete an independent project in addition to the regular course requirements. Prerequisite: PSY 111.

### 305 PSYCHOLOGY OF WOMEN

3 sem. hrs.

An examination of psychological research to place in scientific perspective the etiology and behavioral consequences of female and male-oriented attitudes. Prerequisite: PSY 111.

### 320 HISTORY AND SYSTEMS OF PSYCHOLOGY

3 sem. hrs.

Historical antecedents of modern psychology, beginning with Aristotle. Examination of modern psychology from a systematic point of view. Prerequisite: 12 semester hours of Psychology.

### 331 STUDIES IN EXPERIMENTAL PSYCHOLOGY

3 sem. hrs.

Individualized research course focusing on particular content areas. Sections concentrate in different areas. Repeatable but not in the same content area. Prerequisites: PSY 231, 240.

### 333 PRINCIPLES OF BEHAVIOR MODIFICATION (formerly EXPERIMENTAL ANALYSIS OF BEHAVIOR)

3 sem. hrs.

Principles of behavior modification with an emphasis upon their use in a variety of educational and clinical settings. Prerequisite: PSY 111.

### 334 PSYCHOLOGICAL MEASUREMENT

3 sem. hrs.

Selection, evaluation, and interpretation of psychological tests, with emphasis on basic theory. Tests are consid-

ered as indicators of constructs in specific decision situations. Prerequisite: PSY 111.

### 335 INTRODUCTION TO MATHEMATICAL PSYCHOLOGY

3 sem. hrs.

Role of mathematics in psychological theory. Application of mathematical models in measurement, learning, perception, and choice. Prerequisites: PSY 111 and MAT 110 or 120.

### 346 PSYCHOLOGY OF EXCEPTIONAL CHILDREN

3 sem. hrs.

A study of the socio-psychological factors influencing the exceptional child's cognitive and effective development with implications for those working with exceptional children. Prerequisite: PSY 112 or 301 or 302 or C&I 210.

### 347 BEHAVIOR DISORDERS IN CHILDREN

3 sem. hrs.

Medical, psychological, sociological aspects of behavioral disorders of children. Prerequisite: PSY 111.

### 350 PSYCHOPATHOLOGY

3 sem. hrs.

Behavior disorders; neuroses, psychoses, character disorders, mental deficiencies, and other psychopathological conditions. Prerequisite: 12 semester hours of Psychology.

### 352 HUMAN ABILITIES

3 sem. hrs.

Nature, assessment, and organization of human abilities. Empirical and theoretical analysis of genetic and environmental factors in development of abilities. Prerequisite: PSY 334.

### 360 LEARNING

3 sem. hrs.

Experimental data bearing on the problem of human learning; learning theory; learning data and theory in relation to applied problems. Prerequisite: PSY 111.

### 361 PERCEPTION

3 sem. hrs.

Cognitive processes and their relationship to other processes. Relationship of sensation, attention, and memory to perception and factors influencing perception. Prerequisite: Nine semester hours of Psychology.

### 363 PHYSIOLOGICAL PSYCHOLOGY

3 sem. hrs.

Neurophysiological and biochemical substrates of behavioral processes including sensorimotor, perceptual, motivational, emotional, and intellectual behaviors. Prerequisites: Nine semester hours of Psychology and BSC 100.

### 364 MOTIVATION

3 sem. hrs.

Evolution of basic concepts leading to contemporary explanation of determiners of action with application to vocational, social, and educational areas. Prerequisite: Nine semester hours of Psychology.

### 365 DYNAMICS OF SOCIAL BEHAVIOR

3 sem. hrs.

An overview of the explanations for various aspects of social behavior, e.g., interaction, attitudes, person perception, etc. Prerequisite: PSY 131.

### 375 PERSONNEL PSYCHOLOGY

3 sem. hrs.

Procedures and methods used to match individual skills and abilities to the requirements of specific jobs:

Emphasis is on personnel selection. Prerequisites: PSY 230 or 334.

### **376 ORGANIZATIONAL PSYCHOLOGY**

**3 sem. hrs.**

Research methods and results concerning social psychology of work organizations. Descriptions of practices of organizational psychology. Prerequisites: PSY 230. Not for credit if had BUA or MAM 221 or 421.

### **416 ADVANCED EDUCATIONAL PSYCHOLOGY**

**3 sem. hrs.**

Learning retention and forgetting, transfer of training, individual differences, intelligence, language, social class influences, and mental health as they pertain to education. Prerequisite: PSY 215 or C&I 210.

### **418 THEORIES OF LEARNING**

**3 sem. hrs.**

A consideration of the major contemporary learning theories and their relationship to experimental data. Prerequisite: PSY 231 or 360.

### **420 THEORIES OF PERSONALITY**

**3 sem. hrs.**

Analysis of major theoretical formulations concerning personality with emphasis upon their current status and evidential bases.

### **421 ADVANCED BEHAVIOR MODIFICATION**

**3 sem. hrs.**

Techniques for changing behavior through manipulation of environment. General principles of conditioning plus their application to patterns of problem behavior. Prerequisite: PSY 331 (operant) or 333 or 360 or consent of instructor.

### **422 PRACTICUM: BEHAVIOR MODIFICATION**

**3 sem. hrs.**

Conditioning techniques under controlled conditions with students personally disturbed by minor behavior problems. Methods for assessing the effectiveness of the techniques. Prerequisites: PSY 421 and consent of instructor.

### **432 PSYCHODIAGNOSTICS I**

**3 sem. hrs.**

Theory of and training in individual mental testing with emphasis on the Binet and the Wechsler tests. Prerequisites: PSY 350 or concurrent registration and consent of instructor.

### **433 PSYCHODIAGNOSTICS II**

**3 sem. hrs.**

Theory of projective methods and development of competence in the use of selected procedures. Prerequisites: PSY 432 and consent of instructor.

### **434 PSYCHODIAGNOSTICS III**

**3 sem. hrs.**

Multi-dimensional approaches to personality assessment, with emphasis on the Rorschach test. Prerequisites: PSY 433 and consent of instructor.

### **435 DIAGNOSTIC PROCEDURES**

**3 sem. hrs.**

Emphasis is on the assessment, diagnosis, and remediation of learning disabilities with particular stress on a psycholinguistic approach. Prerequisites: Graduate standing in Psychology and consent of instructor.

### **436 PRACTICUM**

**1-8 sem. hrs.**

Clinical practice in university facilities and outside agencies. Provides training and diagnosis and treatment. Fifteen hours per week. Prerequisites: Clinical & Counsel-

ing, PSY 432 and 464 and consent of instructor; School, PSY 432, 433, and 435 and consent of instructor. May be repeated to a total of eight semester hours.

### **437 GROUP PSYCHOTHERAPY AND COUNSELING**

**3 sem. hrs.**

Theory and research in group dynamics, techniques of group therapy and counseling. Methods of evaluating groups, direct experience as group member and group leader. Prerequisites: PSY 464 and consent of instructor.

### **438 TECHNIQUES OF OBJECTIVE PSYCHOLOGICAL ASSESSMENTS**

**3 sem. hrs.**

Clinical application of representative techniques of objective measurement. Selection, integration, and interpretation of tests will be included. Prerequisites: PSY 334 and consent of instructor.

### **440 STATISTICS II**

**3 sem. hrs.**

Logic of statistical inference: Interval estimation, complex hypothesis testing, and non-parametric techniques. Applications in behavioral sciences. Prerequisite: PSY 240.

### **441 EXPERIMENTAL DESIGN**

**3 sem. hrs.**

Statistical principles of experimental design; selection, analysis, and interpretation of Analysis of Variance and Covariance designs in the behavioral sciences. Prerequisite: PSY 440.

### **442 TEST THEORY**

**3 sem. hrs.**

Theory and principles of test reliability and validity, topics in test theory, statistical procedures applicable to psychometric methods. Prerequisites: PSY 240 and 334.

### **444 MULTIVARIATE ANALYSIS**

**3 sem. hrs.**

Topics covered include basic matrix algebra and linear transformations, analysis of covariance with multiple covariates, multivariate significance tests of group differences, discriminant analysis, multivariate analysis of variance. Prerequisite: PSY 441.

### **464 THEORIES AND TECHNIQUES OF COUNSELING**

**3 sem. hrs.**

Goals, methods, and procedures of different theoretical positions. Emphasis is on inter-personal dimensions of the counseling interview.

### **465 VOCATIONAL COUNSELING**

**3 sem. hrs.**

Acquiring and using occupational and educational information. Consideration of job requirements and training opportunities; developing occupational units; nature of vocational development.

### **470 CLINICAL PSYCHOLOGY**

**3 sem. hrs.**

Traces history and philosophy of profession from assessment, psychotherapeutic and research traditions. Prerequisite: Graduate standing in Clinical, Counseling, or School Psychology or consent of instructor.

### **472 THEORY & PRACTICE OF SCHOOL PSYCHOLOGY**

**3 sem. hrs.**

The roles, functions and professional problems in School Psychology. Prerequisites: Open only to students in School Psychology Program, consent of instructor.



**480 SEMINAR IN PSYCHOLOGY****2-3 sem. hrs.**

Permission of the instructor.

**481 COMMUNITY MENTAL HEALTH****3 sem. hrs.**

Social systems as they affect individual mental health. Conceptual models, typical programs, methods of analyzing communities, and methods for designing community mental health programs. Prerequisite: PSY 350.

**491 INTERNSHIP IN COLLEGE TEACHING OF PSYCHOLOGY****3 sem. hrs.**

Credit for this course is given in C&amp;I (see C&amp;I 491).

**498 PROFESSIONAL PRACTICE IN SCHOOL PSYCHOLOGY****4 sem. hrs.**

A full-time training experience in an approved school setting supervised by a certified school psychologist in collaboration with course instructor. Open only to students in School Psychology program; consent of program coordinator.

**499 MASTER'S THESIS****1-6 sem. hrs.**

## **SOCIOLOGY, ANTHROPOLOGY AND SOCIAL WORK**

**Chairperson:** Dorothy Lee. Office: Schroeder Hall 206.

**Teaching Staff:** P. Baker, F. J. Davis, R. Dirks, D. Eaton, C. T. Griffin, S. Grupp, B. Heyl, L. Huang, E. Jelks, D. Lee, W. Leonard, M. Nickels, O. Pocs, V. Pohlmann, M. Pratt, J. Keyman, R. Schmitt, R. Stivers, S. Thomas, W. Tolone, R. Treadway, R. Walsh, M. Zey-Ferrell.

### **Master's Degree in Sociology**

The department offers work leading to the M.A. and M.S. degrees in Sociology. The 32 hour minimum of graduate work must include Sociology 466, Sociology 471, and at least nine additional hours of Sociology courses at the 400 level, excluding Independent Study and Master's Thesis. The remaining 15 hours may be taken at the 300 or 400 level and may include up to six hours in related non-sociology courses and up to six hours of Independent Study with consent of adviser. Entering students should have a minimum of 12 semester hours in Sociology including Sociology 240, Sociology 270, and Sociology 271 or demonstrate equivalent competency. Enrollment for such undergraduate courses may be used to remove deficiencies but do not count toward the 32 hour minimum for the graduate degree.

### **Courses in Sociology**

**332 SMALL GROUPS****3 sem. hrs.**

Conditions affecting interaction in small groups, the small group as an ongoing social system. Limited research project. Prerequisite: SAS 131 or PSY 131.

**333 SELF AND SOCIETY****3 sem. hrs.**

A social psychological approach. Childhood and adulthood socialization are examined from the perspectives of symbolic interactionism, role theory, reference group

theory, and self theory. Pragmatic implications are considered. Prerequisite: SAS 106 or PSY 111.

**341 SOCIOLOGY OF SEX ROLES****3 sem. hrs.**

Application of culture concepts, status, role and self concepts, and socialization concepts toward the explanation of sex differences in social behavior. Institutionalized and social change processes are examined. Prerequisite: SAS 106 or PSY 111.

**342 ADVANCED HUMAN SEXUALITY (Formerly HUMAN SEXUALITY)****3 sem. hrs.**

Analysis of personal, interpersonal, and sociocultural aspects of sexual relationships. Prerequisite: PSY 123 or SAS 123.

**350 SOCIOLOGY OF EDUCATION****3 sem. hrs.**

Sociological perspective on educational systems. Relationship of the educational system to other institutions, organizational characteristics, and social factors influencing behavior of students. Prerequisite: SAS 106.

**365 JUVENILE DELINQUENCY****3 sem. hrs.**

Delinquency as a social and legal problem; theories of delinquency, the juvenile court; prevention and treatment.

**366 CONTEMPORARY SOCIAL MOVEMENTS****3 sem. hrs.**

Patterns of collective behavior; structure and functions of social movements. Examination of several social movements, analysis of morals, leadership and control. Prerequisite: SAS 106.

**367 CRIMINOLOGY****3 sem. hrs.**

Criminological theory and practice. Crime as a social and legal problem. The administration of justice.

**369 SOCIAL CHANGE****3 sem. hrs.**

An investigation of social change theory; case studies of change in developing societies undergoing modernization; the dynamics and consequences of planned social change.

**410 SOCIOLOGY OF URBAN AREAS****3 sem. hrs.**

Analysis of current theory and research in urban sociology; application to current issues in urban areas.

**431 ADVANCED SOCIAL PSYCHOLOGY****3 sem. hrs.**

Intensive study of a major sub-area of social psychology. Socialization, social role theory, self theory, collective behavior, attitude formation and measurement.

**461 READINGS IN SOCIOLOGY****1-3 sem. hrs.**

A course for the graduate student who would benefit more from a specialized independent type of study adapted to the student's background and needs. To be taken by permission of the department chairperson and the instructor involved.

**465 SOCIOLOGY OF FORMAL ORGANIZATIONS****3 sem. hrs.**

Analysis of classical organizational models including: Weberian, Classical Management, Human Relations, Decision Making, and Political Process. Focus on environmental, contextual, structural, process, and performance dimensions of organizations.

**466 SOCIOLOGICAL THEORY****3 sem. hrs.**

An analysis of recent theoretical developments in sociology. Attention will focus on a variety of social theories found useful in explaining social phenomena.

**467 SOCIOLOGY OF LAW****3 sem. hrs.**

Sociological theories of law, and research on law in society. Attention to judicial and jury decision-making, legal structures, legislation, power, beliefs, conflict, and social change. Public, civil, and criminal law included.

**469 SEMINAR IN SOCIOLOGY****3 sem. hrs.**

May be taken up to three times if topics differ. Advanced graduate study in sociological topics:

Seminar in Deviance/Criminology

Seminar in Family/Sex Roles

Seminar in Minorities/Stratification

Seminar in Social Institutions

Seminar in Demography

**471 SOCIOLOGICAL RESEARCH****3 sem. hrs.**

Design and execution of research involving theoretical and methodological aspects of sociological problems. Advanced methods of analysis and interpretation of data.

**491 INTERNSHIP IN COLLEGE TEACHING OF SOCIOLOGY-ANTHROPOLOGY****3 sem. hrs.**

Credit for the course is given in C&I (see C&I 491).

**499 MASTER'S THESIS****1-6 sem. hrs.**

Refer to General Courses.

**Courses in Anthropology****306 REGIONAL AND AREA STUDIES****1-9 sem. hrs.**

Directed research in any of the sub-disciplines in anthropology. Prerequisite: Consent of instructor. Usually given cooperatively with other departments.

**380 KEY CONCEPTS IN ANTHROPOLOGY****3 sem. hrs.**

Anthropological thought from historical, systematic, and applied viewpoint; emphasis on changing content, concepts, methods of the discipline. Prerequisites: SAS 180, 182, 183, 273, 285, 286 or consent of instructor. Formerly History of Anthropological Thought.

**381 ANTHROPOLOGICAL APPROACHES TO AGRARIAN****LIFE IN THE THIRD WORLD****(Formerly ECONOMIC ANTHROPOLOGY)****3 sem. hrs.**

Emphasis will be given to the assumptions, materials, and decisions in countries of the Third World which affect crop choice, land use, marketing, food selection, and acceptance of innovations. Prerequisite: SAS 180.

**383 STUDIES IN SELECTED CULTURES****3 sem. hrs.**

Culture patterns of selected areas. Physical characteristics, history, social, political, intellectual life, cultural change of aboriginal people. Prerequisite: SAS 180. Formerly Selected Studies in Culture Areas.

**384 AFRO-AMERICAN ADAPTATIONS****3 sem. hrs.**

A comparative study of Afro-American populations in

a variety of ecological niches throughout the New World. The styles, strategies, and traditions of Afro-America, both historical and contemporary are analyzed in relation to tribal, peasant, and proletariat communities. Prerequisite: SAS 180.

**385 POLITICAL ANTHROPOLOGY****3 sem. hrs.**

Examines the origins and evolution of political, administrative and legal structures and processes by tracing their emergence in primitive society through the development of the nation-state.

**386 CULTURES OF SOUTHEAST ASIA****3 sem. hrs.**

Patterns of prehistory, history, economics, religion, and daily life in Southeast Asia. Prerequisite: SAS 180. Formerly SAS 284.

**388 HISTORICAL ARCHAEOLOGY****3 sem. hrs.**

Research methods of historical archeology reviewed, and the principles that underlie the methods examined critically. A local historic site is thoroughly studied as a class project. Prerequisite: SAS 183 or consent of instructor.

**Courses in Social Work****323 CHILD WELFARE SERVICES****3 sem. hrs.**

It is recommended that this course be taken before SAS 368 if the student wishes placement in a child-serving agency. Services for dependent, neglected, and handicapped children. Prerequisite: SAS 221, 222, or Home Economics major or Special Education major. Formerly Social Work III — Child Welfare Services.

**325 SOCIAL WORK METHODS I****3 sem. hrs.**

Basic theory, values, and beginning skills development generic to social work practice at individual, group, and community levels. Prerequisite: SAS 223. Formerly Social Work IV — Problems in Social Casework.

**SPEECH PATHOLOGY AND AUDIOLOGY**

**Chairperson:** Martin A. Young. Office: Fairchild Hall 204.

**Teaching Staff:** M. Brunt, R. Haller, M. Howard, J. Hufnagle, L. Hult, B. Hutchinson, P. Monoson, D. Richards, J. Tannahill, M. Young.

The department offers work leading to the M.A. or M.S. degrees with emphasis in speech pathology or audiology. In addition to the general requirements of the Graduate School, the candidate for master's degree in speech pathology and audiology must meet the academic requirements for clinical certification by the American Speech-Language and Hearing Association. These requirements presume a well-integrated undergraduate and graduate program that includes 12 semester hours in courses that provide fundamental information applicable to the normal development and use of speech, hearing, and language and 48 semester hours in courses that provide information about and training in the management of speech, hearing, and language disorders and that provide information supplementary to these fields. Master's degree



students are required to take Speech Pathology and Audiology 401. Certification by the American Speech-Language and Hearing Association requires the completion of 300 clock hours of supervised, direct clinical experience with individuals presenting a variety of disorders of communication. Certification for the public schools of Illinois also requires a master's degree, at least 66 semester hours of related undergraduate and graduate course work, and 300 clock hours of supervised clinical experience, including Student Teaching 399. Students may enroll for practicum courses (PAS 317, 352, 358, 417, 458) if they are degree candidates, have a GPA of 3.2 or better on 6 or more semester hours of graduate-level departmental courses, and have the permission of the clinic director. Graduate practicums may require students to provide transportation to settings arranged by the department. A candidate for the master's degree must spend at least one full term in residence in order to qualify for the degree. A full term may be interpreted as one semester, with a class load of 8-15 hours or a summer session with a class load of 6-9 hours.

## Courses

### 311 PHONETICS

3 sem. hrs.

Sound system of American speech. Standard and non-standard variations. Articulatory and acoustic considerations. Practice in transcribing and reading phonetic symbols.

### 316 INTRODUCTION TO ORGANIC DISORDERS OF SPEECH

3 sem. hrs.

Speech disorders related to structural, neurological, and endocrine pathologies. Diagnostic and remedial procedures. Includes clinical experiences. Prerequisite: PAS 215.

### 317 PRACTICUM IN SPEECH PATHOLOGY

1/2-1 sem. hr.

Approximately 45 hours of supervised clinical practice for each semester hour. Prerequisites: PAS 215, 311, and 220. May be repeated for maximum of 2 hours. Materials charge.

### 318 ORGANIZATION OF SPEECH, HEARING, AND LANGUAGE PROGRAMS

3 sem. hrs.

Professional attitudes, ethics, and organizations. Setting up and maintaining programs. Evaluation, therapy techniques, materials applicable to school settings. Relationships to school and community agencies. Prerequisite: Consent of instructor.

### 319 STUTTERING I

3 sem. hrs.

Nature and history of the problem. Current models of onset, development, and management. Includes clinical experiences. Prerequisite: PAS 215 req.

### 320 SPEECH AND LANGUAGE DEVELOPMENT

3 sem. hrs.

Comprehensive study of acquisition of speech and language by children. Emphasis on first six years. Includes clinical experiences.

### 321 LANGUAGE PATHOLOGY

3 sem. hrs.

Introduction to language disorders in children and adults which are associated with brain damage, learning disabilities, psychopathology, and mental retardation. Prerequisite: PAS 320 req. or an equivalent human language development course at the 300 level.

## 350 AUDIOLOGY I

3 sem. hrs.

Principles of hearing measurement: sound, human ear, test methods, hearing losses, screening methods, test interpretation. Includes clinical experiences.

## 351 SPEECH READING AND AUDITORY TRAINING

3 sem. hrs.

Principle of habilitation/rehabilitation of communication disorders related to hearing impairment. Visual/auditory speech signals. Amplification: function/use. Includes clinical experiences.

## 352 PRACTICUM IN SPEECH READING AND AUDITORY TRAINING

1/2-1 sem. hr.

Approximately 45 hours of supervised clinical practice for each semester hour. Prerequisites: PAS 351 and PAS 358 req. May be repeated for maximum of 2 hours. Materials charge.

## 357 PSYCHOLOGICAL IMPLICATIONS OF HEARING IMPAIRMENT

3 sem. hrs.

Hearing impairment: survey of behavior, intelligence and personality data, parental counseling. Prerequisite: PAS 350 or equivalent req.

## 358 PRACTICUM IN BASIC AUDIOLOGY

1/2-1 sem. hr.

Approximately 45 hours of supervised clinical practice for each semester hour. May be repeated for maximum of 2 hours. Materials charge. Prerequisite: PAS 350 req.

## 371 SPEECH SCIENCE

3 sem. hrs.

Elementary acoustical theory and application to study of speech production and reception. Speech spectrography.

## 372 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISM

3 sem. hrs.

Includes effects of deviations on end product.

## 401 INTRODUCTION TO GRADUATE STUDY IN SPEECH PATHOLOGY AND AUDIOLOGY

3 sem. hrs.

Introductory review of research strategy and philosophy in speech pathology and audiology for professionals who will be consumers of research literature.

## 412 PHONOLOGICAL DISORDERS

3 sem. hrs.

Review and synthesis of literature on articulatory phonetics, the acquisition and disruption of phonological processes, and the assessment and remediation of phonological disorders.

## 413 VOICE AND ALARYNGEAL SPEECH

3 sem. hrs.

Study of the historical and contemporary literature relating to etiologies, diagnosis, and therapies for voice disorders and alaryngeal speech. Prerequisites: PAS 316 or equivalent; PAS 372 or equivalent or consent of instructor.

## 415 SEMINAR IN LANGUAGE DISORDERS

3 sem. hrs.

Prerequisites: PAS 215 or 320.

## 417 CLINICAL PRACTICE IN SPEECH PATHOLOGY

1/2-1 sem. hr.

Supervised work in diagnosis and/or therapy. Prerequisite: Consent of instructor. Materials charge.

**418 STUTTERING II****3 sem. hrs.**

Study of the recent research relating to stuttering and of methods of examination, diagnosis, and remedial procedures. Prerequisite: PAS 319.

**419 APHASIA****3 sem. hrs.**

This course is designed to provide the student with a knowledge of the past and current research and theory on the etiologies, diagnosis of, and therapies for aphasia in children and adults. Prerequisites: PAS 316 and 372.

**441 DIRECTED READINGS IN SPEECH PATHOLOGY****1-3 sem. hrs.**

For the student who would benefit from specialized independent study which can be adapted to individual background and needs. Permission to enroll should be secured from the department chairperson and the instructor involved. May be repeated with a maximum of three hours credit. Prerequisite: Evidence of substantial background in speech pathology.

**443 SYMPOSIUM IN AUDIOLOGY OR SPEECH PATHOLOGY****1-6 sem. hrs.**

For the experienced professional person in speech pathology and/or audiology or for advanced graduate students. May be repeated up to six hours. Prerequisite: Consent of the director of the symposium.

**444 NEUROPATHOLOGIES OF SPEECH****3 sem. hrs.**

The nature and types of neuropathologies that have an effect on speech production, with particular emphasis given to cerebral palsy. Prerequisite: PAS 316 or equivalent.

**445 OROFACIAL ANOMALIES AND ASSOCIATED SPEECH DISORDERS****3 sem. hrs.**

Embryological growth and development and the etiologies, diagnostic, and habilitative procedures for cleft lip and palate and associated congenital anomalies. Prerequisites: PAS 215 and 316 or equivalent.

**446 DIAGNOSTIC PROCEDURES IN SPEECH PATHOLOGY****3 sem. hrs.**

Test materials and procedures for differential diagnoses of speech and language problems.

**450 ADVANCED AUDITORY TESTS****3 sem. hrs.**

The rationale, application, and interpretation of advanced testing procedures; evaluation of research in special tests. Prerequisite: PAS 350 or equivalent.

**452 SPEECH AUDIOMETRY AND HEARING AIDS****3 sem. hrs.**

The examination of the theories and principles underlying the clinical management of communication disorders resulting from and related to hearing impairment, with emphasis on speech audiometry and hearing aids. Prerequisite: PAS 350 or equivalent.

**453 AUDITORY FUNCTIONS AND DISORDERS****3 sem. hrs.**

Function of the auditory mechanism with reference to theories of hearing; examination of the etiology, loci, and effects of hearing pathology as it affects auditory function in adults. Prerequisite: PAS 350 or equivalent.

**455 HEARING DISORDERS IN CHILDREN****3 sem. hrs.**

A review and study of the literature in audiology and otology of the etiology, loci, and effects of pathology in the auditory system of children. Prerequisite: Consent of instructor.

**456 SEMINAR IN AUDIOLOGY****2-6 sem. hrs.**

Specific topics selected by the student with approval of the instructor, or assigned topics will be explored. In general, library sources will be employed; however, some experimental procedures may be approved. The student may repeat the seminar for credit provided that the subject matter is not duplicated and the total credit earned does not exceed six semester hours. Prerequisite: Consent of instructor.

**458 PRACTICUM IN AUDIOLOGY****1/2-1 sem. hr.**

Supervised experience in all aspects of audiology. Emphasis in one or more aspects will be permitted to suit the objectives of the student. The student may enroll more than once if the subject matter is not duplicated and the total credit earned does not exceed six semester hours. Prerequisite: PAS 350. Materials charge.

**471 EXPERIMENTAL PHONETICS****3 sem. hrs.**

A study of the literature and instrumentation related to speech production, the speech signal, speech and auditory perception. Prerequisite: PAS 371 and 372 or equivalent.

**499 MASTER'S THESIS****1-6 sem. hrs.**

Students who register for one or more hours of PAS 499 are required to attend thesis seminar.



# COLLEGE OF BUSINESS

The basic objective of the College of Business is to serve the needs of undergraduate and graduate students preparing for professional, managerial, and administrative positions in business, industry, government, and non-profit organizations and those preparing for professional business education careers at all levels. The College includes the Departments of Accounting, Business Education and Administrative Services, Finance and Law, and Management and Marketing.

## Business

The College of Business offers several graduate programs through its Office of Graduate Programs and the Departments of Accounting (ACC), Business Education and Administrative Services (BEA), Finance and Law (FAL), and Management and Marketing (MAM). The Department of Accounting offers the Master of Science (M.S.) in Accounting, a degree embodying advanced theories and concepts that contribute to the increasing professionalization of the student. The Department of Business Education and Administrative Services offers the M.A. and M.S. degrees oriented principally toward the teaching of business subjects at the secondary school level.

**Office of Graduate Programs:** Donald W. Echrich.  
Office: Williams Hall.

## Master of Business Administration

The Master of Business Administration (MBA) degree is a collegiate degree with courses offered in the Departments of Finance and Law, Management and Marketing, and Accounting. The program is designed to prepare the student for a managerial, professional, or administrative career not only in business, but also in government, education, social and other not-for-profit institutions. The MBA graduate acquires knowledge and skills necessary for assuming responsibility at various levels of these organizations. Elective credits allow students to individualize their program and to obtain functional specialization in diverse areas: marketing, management, personnel management, management for non-profit organizations, finance, decision system, and systems analysis.

### MBA Program Requirements for Admission

All University and Graduate School requirements for admission to a degree program in the Graduate School of the University apply with the substitution of the Graduate Management Admissions Test (GMAT) for the GRE. However, the collegiate requirements for admission to the Master of Business Administration degree program are higher than those in the Graduate School:

A grade point average for the last 60 undergraduate hours of 2.75 and a total of at least 1000 points computed as follows:  $200 (\text{GPA}) + (\text{GMAT Score})$  with the further pro-

viso that a minimum GMAT score of 400 must be attained. The GMAT should be taken before filing an application for admission. Official score reports on the GMAT are an absolute prerequisite for consideration for admission to the MBA program.

International students are required to submit TOEFL scores (minimum 570) with their admission applications.

Students may be admitted to the MBA program at any time during the academic year.

### Academic Adviser

Students seeking the MBA should meet with the Coordinator of Graduate Programs in the College of Business and develop a Plan of Study.

The MBA degree assumes an undergraduate knowledge base in business, economics, and accounting which students with undergraduate degrees in business will normally have completed. Students with non-business undergraduate degrees may have to complete courses in one or more knowledge areas before enrolling in the courses available for graduate credit. Specific prerequisite requirements will be determined in consultation with the Coordinator of Graduate Programs.

### Curriculum Requirements

All MBA candidates must complete 36 semester hours as follows:

- 24 hours of required courses (MAM 415, 417, 420, 421, 430, 485; FAL 440; ACC 450)
- 12 hours of graduate electives, selected considering the student's career objective.
- If electives are taken from outside the College of Business, they must be 400-level courses or above. No more than two 300-level elective courses may be taken from within the College of Business.

Neither a comprehensive examination nor a thesis is required.

### Transfer Credit

Refer to Index for Graduate School policy on transfer of credit.

### Time Limitations

Refer to Index for Graduate School policy on time limitations.

### Course Limitations

Master of Business Administration candidates will not be permitted to include ECO 401, MAM 301, 327, 334, 335, 338, and 385, FAL 349, in their Plan of Study.

### Courses

Description of courses leading to the MBA degree will be found under the Departments of Finance and Law, Management and Marketing, and Accounting.

## Repetition of Courses in the MBA Program

A student can register officially for any MBA course, undergraduate deficiency or graduate level, only twice. That is, if a student completes a course, or drops a course after the tenth day enrollment report, he or she may enroll officially in the same course only one additional time.

## ACCOUNTING

**Chairperson:** James A. Hallam. Office: Stevenson Hall 435A.

**Teaching Staff:** E. Carey, J. Hallam, M. Rexroad, E. Rozanski, D. Sands, T. Secoy, R. Tussing.

### Master of Science in Accounting

The Master of Science in Accounting degree is designed for the student who is interested in professional accounting. It is anticipated that upon completion of a degree the student will be employed in a public accounting firm or an accounting area of business or government. The Master of Science in Accounting degree is based upon the recommendations of the American Institute of Certified Public Accountants. The AICPA has recommended a fifth year of academic preparation prior to entering public accounting. This degree is designed to meet that fifth year need.

### Admission Requirements

All University and Graduate School requirements for admission to a degree program of the Graduate School at Illinois State University will apply. Graduate students who have been admitted to the University will be admitted to the Master of Science in Accounting degree program only after successfully completing the Graduate Management Admission Test (GMAT). A score of 450 is generally considered an acceptable score if the student has a 3.0 GPA on a 4.0 = A scale.

Before entering the program students will normally have had a Bachelor of Science in Accounting degree; otherwise, there may be deficiencies. Deficiencies will be determined by the chairperson of the Department of Accounting.

### Academic Advisor

The chairperson of the Department of Accounting serves as the academic advisor for the Master of Science in Accounting graduate students. It is recommended that undergraduate students who are considering a Master of Science in Accounting degree make arrangements with the academic advisor to determine deficiencies and to develop a plan of study for the complete program. Thus, the student should see the advisor to discuss the entire program including the comprehensive examination.

### Courses

Normally, the following courses will not count toward an M.S. in Accounting: ACC. 333, 335, 401, 450, and 464.

#### 330 FUND ACCOUNTING

3 sem. hrs.

Accounting applications to financial planning and control for non-profit institutions. Prerequisite: 5 hours of accounting.

#### 332 ADVANCED MANAGERIAL ACCOUNTING

3 sem. hrs.

Recent conceptual and analytical developments in the area of management accounting. Prerequisites: ACC 230, 260, MAM 100, and MAT 121.

#### 333 INCOME TAX PROCEDURE

3 sem. hrs.

Emphasis on individual. Introduction to corporation and partnership. Prerequisite: ACC 131 or consent of department chairperson.

#### 334 ADVANCED TAX PROBLEMS

3 sem. hrs.

Intensive examination of corporation, partnership, estate, trusts, and gift tax problems. Prerequisite: cons of dept chprn.

#### 335 AUDITING

3 sem. hrs.

The CPA profession; auditor's opinion, evidence, internal control, auditing standards, programs, procedures and ethics, statistical sampling, working papers. Prerequisite: 12 hours of accounting.

#### 336 AUDITING PROBLEMS

3 sem. hrs.

In-depth analysis of statistical samples, accountants' legal exposure, EDP in auditing, analysis of practical problems encountered by the public accountant in a variety of auditing situations.

#### 337 ADVANCED ACCOUNTING PROBLEMS

3 sem. hrs.

Theory and problems involved in preparation and interpretation of consolidated statements, estates and trusts, and partnerships. Prerequisite: ACC 232.

#### 338 ACCOUNTING THEORY AND PRACTICE

3 sem. hrs.

Consideration of the interrelation of theory and practice with a synthesis of Financial and Managerial Accounting, Auditing, and Income Taxes. Current issues and research methodology are prime concerns. Prerequisites: ACC 230 and 232.

#### 361 BUSINESS SYSTEMS ANALYSIS FOR COMPUTER PROGRAMMING

3 sem. hrs.

Introduction to systems analysis and design for business data processing. Prerequisites: ACC 260.

#### 362 ADVANCED BUSINESS SYSTEMS ANALYSIS

3 sem. hrs.

Involves the development of data processing system, including the development of input files, updating and file maintenance, and design and preparation of reports, and complete documentation of the data processing system. Prerequisite: ACC 361 or consent of department chairperson.

#### 366 ADVANCED BUSINESS DATA PROCESSING

3 sem. hrs.

Advanced applications using disk systems, tape systems, and operating systems as applied to business problems using COBOL. Prerequisite: Acc 266.

#### 367 COMPUTER APPLICATIONS FOR BUSINESS DECISION MAKING

3 sem. hrs.

Dynamic mathematical techniques using accounting data to solve business problems. Linear programming,



queuing-line problems, structure of business games, models. Prerequisites: 9 hours of ACC, including 160 or 260 and 12 hours of MAM or FAL including MAM 100. Cons. dept chprn.

### **368 BUSINESS SIMULATION**

**3 sem. hrs.**

Applications of computer simulation techniques to business problems. Emphasis on systems approach to model building, analysis, and interpretation. Prerequisites: MAM 100, ACC 160 or equivalent. Also offered as MAM 368.

### **369 DATA PROCESSING CENTER OPERATIONS**

**3 sem. hrs.**

A study of managerial data processing responsibilities, problems and issues encountered by a data processing manager. Prerequisite: 9 hrs. in BIS or cons. of dept. chprsn.

### **375 PROFESSIONAL PROBLEMS**

**3 sem. hrs.**

An in-depth study of contemporary accounting problems with a strong orientation toward the preparation for the CPA examination. Prerequisite: 24 hours of ACC including ACC 337.

### **401 SURVEY OF ACCOUNTING PRINCIPLES**

**3 sem. hrs.**

This course compresses into a single semester material ordinarily covered in two semesters of elementary accounting. Enrollment is limited to graduate students who have had no more than one semester of previous study in accounting. The course cannot be presented for graduate credit by a degree candidate in the Accounting or MBA program.

### **430 ADVANCED ACCOUNTING THEORY**

**4 sem. hrs.**

Fundamental concepts of accounting theory: their nature, structure, history, and development. Relationship and application to current accounting problems. Prerequisite: 15 semester hours of accounting or consent of department chairperson.

### **431 CURRENT ISSUES IN ACCOUNTING**

**4 sem. hrs.**

Consideration of current issues and controversies in theory and practice; special attention given to authoritative pronouncements and professional literature. Prerequisite: 15 semester hours of accounting or consent of department chairperson.

### **435 ADVANCED AUDITING**

**4 sem. hrs.**

A critical analysis of auditing standards and procedures, the relationship of trends and developments of the accounting profession to the practice of auditing, including the examination of current professional literature. Prerequisite: ACC 335, or consent of department chairperson.

### **439 ADMINISTRATIVE ACCOUNTING**

**4 sem. hrs.**

Accounting as a tool for management planning and control and decision making. Organization of the accounting department; financial and management audits and performance evaluation; cost determination and analysis for administrative purposes. Prerequisite: 15 hours of accounting or its equivalent, or consent of department chairperson.

### **450 MANAGEMENT ACCOUNTING**

**3 sem. hrs.**

Designed for non-accounting majors. Emphasis on the interpretation and use of accounting data. Prerequisite: 6 hours of accounting or consent of instructor.

### **464 COMPUTER METHODOLOGY**

**2 sem. hrs.**

Designed for non-accounting majors. File processing and statistical programming. Use of statistical programs previously written and stored on the computer. Not open to students who have six semester hours of computer courses or equivalent.

### **468 COMPUTER-BASED MANAGEMENT INFORMATION SYSTEMS**

**3 sem. hrs.**

Designing of management information systems modules and their integration into an overall computer-based management information system for business. Prerequisites: ACC 260 and 361 or consent of department chairperson.

### **470 ADVANCED STUDIES IN SPECIALIZED FIELDS**

**2-4 sem. hrs.**

Recent developments in accounting, data processing, and information systems. May be taken for credit more than once, provided different material is covered. Prerequisite: 15 semester hours of accounting or consent of department chairperson.

### **497 INTRODUCTION TO RESEARCH METHODOLOGY IN ACCOUNTING**

**4 sem. hrs.**

Instruction in research and reporting methods, practices, and techniques together with individual practice in conducting and reporting on specific research projects in accounting. Prerequisites: 15 sem. hrs. of accounting and BEA 215 or its equivalent, or consent of department chairperson.

### **499 MASTER'S THESIS**

**1-6 sem. hrs.**

## **BUSINESS EDUCATION AND ADMINISTRATIVE SERVICES**

**Acting Chairperson:** John H. Rich. Office: Stevenson Hall 435 C.

**Teaching Staff:** W. Alexander, J. Grever, J. Hall, A. Kaisershot, P. Marcum, W. Perry, J. Rich, I. Varner, M. Winchell, R. Wray.

### **Master's Degree Programs in Business Education**

The Master's Degree Program in Business Education can lead to the Master of Arts or the Master of Science degree. A minimum of 32 semester hours and a comprehensive examination are required or the student may elect to take 28 semester hours and do a thesis for four semester hours of credit in Master's Thesis 499.

Both degree programs require 17 semester hours in business education and up to 15 semester hours in business, education, or cognate courses with the approval of the student's adviser.

Thirty-nine semester hour option. Of the 39 semester hours required, a minimum of 21 semester hours must be taken from the Department of Business Education and Administrative Services of which no less than 11 semester hours must be at the 400-level or above. Neither a thesis nor a comprehensive examination is required. However,

the student must maintain a 3.2 grade point average for graduation. In addition, a graduate student selecting the 39-semester hour option must write a major research paper for which one semester credit hour will be allowed.

No specific elective courses are required for the Master of Science degree. The Master of Arts degree requires foreign language reading competency in addition to the required number of semester hours.

## Admission Requirements

All University and Graduate School requirements for admission to a degree program of the Graduate School at Illinois State University will apply. Graduate students who have been admitted to the University will be admitted to the Master of Science or Master of Arts degree program in Business Education only after successfully completing the Graduate Management Admission Test (GMAT).

Before entering the program students will normally have had a Bachelor's degree in Business Education; otherwise, there may be deficiencies. Deficiencies will be determined by the chairperson of the department.

## Academic Advisor

The Coordinator of Graduate Programs in consultation with the chairperson of the Department of Business Education and Administrative Services serves as the academic adviser for the Master's Degree in Business Education. Students seeking a Master's Degree in Business Education should meet with the departmental graduate student adviser prior to enrollment in graduate courses. Individual conferences with the students are continued throughout the graduate program. During the semester or summer term preceding the completion of the degree requirements, the Plan of Study required by the Graduate School is prepared jointly with the student and graduate adviser. Assistance is also provided for the degree candidate in preparing for the Comprehensive Examination.

## Transfer Credit

Refer to Index for Graduate School policy on transfer of credit.

## Time Limitations

Refer to Index for Graduate School policy on time limitations.

## Courses

### 320 PRACTICUM IN OFFICE PRACTICE INSTRUCTION

**2-3 sem. hrs.**

For business education teachers teaching office machines or teaching in office education programs. Prerequisite: BEA 211.

### 321 PRACTICUM IN DATA PROCESSING

**2-3 sem. hrs.**

Application of concepts and skills learned in the classroom to on-the-job data processing applications relative to office system. Prerequisite: ACC 260. Formerly Practicum in Data Processing Instruction.

### 330 DECISION-MAKING FOR CONSUMERS

**3 sem. hrs.**

Survey of consumer problems, trends, and information. Topics include: insurance, housing, credit, life-styles, consumer protection, leisure, and achieving financial security. Also offered as HEC 330. Materials charge.

### 340 SOCIETAL CONTEXT OF CONSUMER EDUCATION

**3 sem. hrs.**

An analysis of the position of consumer education within the social system. The course will examine the institutional framework within which consumers function. Prerequisites: BEA 330, or HEC 330, or HEC 297.

### 361 FOUNDATIONS OF BUSINESS EDUCATION

**3 sem. hrs.**

Historical background and current status of business education emphasizing professional responsibilities of teachers and principles of curriculum construction. Includes Clinical Experiences. Prerequisite: C&I 200 or 215 or conc. reg. req.

### 370 CONCEPTS IN OFFICE INFORMATION PROCESSING

**3 sem. hrs.**

Fundamental knowledge of office information processing systems; organization, implementation management, work flow, equipment, computer work processing, and the role of the secretary.

### 380 ORGANIZATION AND ADMINISTRATION OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS

**3 sem. hrs.**

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and operation of cooperative plan. Includes Clinical Experiences. Prerequisite: BEA 361 or conc. reg. Also offered as HEC 380 and IT 305.

### 381 DIRECTED OCCUPATIONAL EXPERIENCES FOR OFFICE AND DISTRIBUTIVE EDUCATION

**1-4 sem. hrs.**

Designed to provide approved on-the-job experiences for credit toward the occupational experience required of office and distributive education coordinators and in-school instructors. Amount of credit to be earned will be determined by previous work experience.

### 382 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS

**3 sem. hrs.**

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment. Includes Clinical Experiences. Prerequisite: BEA 361 or conc. reg. Also offered as HEC 382 and IT 306.

### 383 INDIVIDUALIZED INSTRUCTION TECHNIQUES IN VOCATIONAL OFFICE AND DISTRIBUTIVE EDUCATION

**3 sem. hrs.**

Individualized instructional methods for teaching high school cooperative classes in office and distributive education. Includes Clinical Experiences. Prerequisite: BEA 361 or conc. reg.



**390 IMPROVEMENT OF INSTRUCTION  
IN BOOKKEEPING AND  
ACCOUNTING**

**3 sem. hrs.**

Methods of instruction, materials, organization, and presentation of subject matter utilized in teaching of bookkeeping and accounting. Includes Clinical Experiences. Prerequisite: BEA 361 or conc. reg.

**392 IMPROVEMENT OF INSTRUCTION  
IN BASIC BUSINESS AND  
CONSUMER EDUCATION**

**3 sem. hrs.**

Methods of instruction, materials, organization, and presentation of subject matter utilized in teaching basic business and consumer education. Includes Clinical Experiences. Prerequisite: BEA 361 or conc. reg.

**394 IMPROVEMENT OF INSTRUCTION  
IN TYPEWRITING AND OFFICE  
PRACTICE**

**3 sem. hrs.**

Instructional methods in teaching personal typewriting, vocational typewriting, and clerical office practice. Includes Clinical Experiences. Prerequisite: BEA 361 or conc. reg.

**396 IMPROVEMENT OF INSTRUCTION  
IN SHORTHAND AND  
SECRETARIAL PRACTICE**

**3 sem. hrs.**

Instructional methods in teaching shorthand, transcription, and secretarial office practice. Includes Clinical Experiences. Prerequisite: BEA 361 or conc. reg.

**402 ADMINISTRATION AND SUPERVISION  
OF BUSINESS EDUCATION**

**3 sem. hrs.**

Concepts and techniques associated with administration of business education programs in high schools and junior colleges.

**406 MEASUREMENT AND EVALUATION  
IN BUSINESS EDUCATION**

**3 sem. hrs.**

Principles underlying measurement and evaluation in business subjects; development and administration of testing programs for business departments.

**408 PROBLEMS OF OFFICE  
MANAGEMENT**

**3 sem. hrs.**

Problems, practices, and policies in office administration. Methods of establishing, analyzing, standardizing, and controlling administrative systems and procedures in the office.

**410 CURRICULUM DEVELOPMENT IN  
BUSINESS EDUCATION**

**3 sem. hrs.**

Principles and practices in curriculum development and revision as they apply to vocational and non-vocational business education programs.

**420 SEMINAR IN BUSINESS  
EDUCATION**

**2-3 sem. hrs.**

Consideration of business education problems of greatest concern to the group and to the individual students by means of class discussions, presentation of position papers and research findings, group discussions, and individual conferences. May be repeated once for credit with consent of Department Chairperson.

**452 DISTRIBUTIVE EDUCATION IN  
THE POST-SECONDARY SCHOOL**

**3 sem. hrs.**

Organization, curriculum construction, and administration of mid-management distributive education programs in post-secondary schools.

**454 PROBLEMS IN DISTRIBUTIVE  
EDUCATION**

**3 sem. hrs.**

Current problems and research involved in teaching distributive education in programs at the secondary and post-secondary levels.

**491 INTERNSHIP IN COLLEGE TEACHING IN  
BUSINESS EDUCATION**

**3 sem. hrs.**

(See Curriculum and Instruction 491).

**497 INTRODUCTION TO RESEARCH  
METHODOLOGY IN BUSINESS  
EDUCATION**

**3 sem. hrs.**

Tools and types of research applicable to business education. Critical evaluation of current research emphasizing application in the improvement of instruction.

**499 MASTER'S THESIS**

**1-4 sem. hrs.**

## FINANCE AND LAW

**Chairperson:** R.E. Potter. Office: Stevenson Hall 351.

**Teaching Staff:** L. Cox, L.C. Crepas, E. Ficek, G. Hirt, S. Massin, J. Meador, G. Naidu, R. Potter, C. Varner, D. Wort.

Description and requirements for the Master of Business Administration degree are listed under the College of Business.

### Courses

**310 BUSINESS IN A LEGAL  
ENVIRONMENT**

**3 sem. hrs.**

Economic, business, and social values or forces which cause law related to business activities to change and adapt. Prerequisite: FAL 210 or consent of instructor.

**311 GOVERNMENT REGULATION OF  
BUSINESS**

**3 sem. hrs.**

Rules and regulations of mergers, monopolies, pricing, advertising, securities, food and drugs, unfair trade practices, utilities, and transportation. Prerequisite: ECO 101.

**341 CAPITAL INVESTMENT DECISIONS**

**3 sem. hrs.**

Theory of capital management, evaluation of risks, determination of capital structures, measure of costs and return, and allocation of capital. Prerequisite: FAL 240.

**343 SECURITY ANALYSIS AND  
PORTFOLIO MANAGEMENT**

**3 sem. hrs.**

Advanced evaluation of types of securities; determinants of their value; methods of combining securities in the construction of investment portfolios. Prerequisites: FAL 240, 242.

**344 INTERNATIONAL FINANCIAL MANAGEMENT****3 sem. hrs.**

Financial management of multinational corporations, including balance of payments, foreign exchange markets and international money and capital markets. Prerequisite: FAL 240. Bus maj only.

**349 ADVANCED FINANCIAL THEORY AND PROBLEMS****3 sem. hrs.**

An advanced coverage of financial theory and its applications to cases and problems. Specific area of emphasis varies according to the interests of students and faculty involved. Prerequisite: FAL 240. Not for graduate credit for MBA students.

**351 LIFE AND HEALTH INSURANCE****3 sem. hrs.**

Personal and business risks. Principles of life and health insurance and their applications. Prerequisites: MAM 100, FAL 210.

**352 PROPERTY AND LIABILITY INSURANCE****3 sem. hrs.**

Application to individuals, business enterprises, and governmental institutions. General consideration of risk in fire, marine, bond, and casualty areas. Prerequisites: MAM 100, FAL 210.

**354 RISK MANAGEMENT****3 sem. hrs.**

Management's role in treating nonspeculative risks to which business is exposed. Emphasis on recognition, evaluation, and treatment of risks. Prerequisite: FAL 352.

**412 LEGAL ASPECTS OF BUSINESS DECISIONS****2 sem. hrs.**

Brief consideration of legal reasoning as the developmental process of law, as it relates to business enterprise. Prerequisite: FAL 210 or consent of department chairperson.

**440 FINANCIAL MANAGEMENT****3 sem. hrs.**

Analysis of financial problems of business enterprises and the formulation of financial policies. Financing of current operations and long-term capital needs, income management and expansion policies. Prerequisites: MAM 100; FAL 240.

**441 ADVANCED FINANCIAL INSTITUTIONS AND MARKETS****3 sem. hrs.**

A critical study of sources of funds and investment management of these funds; scope and changes in financial markets; recent policy changes and problems in financial management of financial institutions; changes being proposed in regulations affecting structure and functions of the intermediaries and the nature of financial markets. Prerequisite: FAL 440.

**442 INVESTMENT MANAGEMENT****3 sem. hrs.**

A strategic and operational study of investments from an analytical perspective including the planning, direction, and evaluation of investment programs. Prerequisite: FAL 440.

**449 SEMINAR IN FINANCE****1-4 sem. hrs.**

Topics will vary with needs and interests of students and faculty. May be taken more than once if different

material is covered. Offered irregularly. Prerequisite: FAL 440.

# MANAGEMENT AND MARKETING

**Chairperson:** G.J. Brabb. Office: 439 Stevenson Hall.

**Teaching Staff:** A. Abdel-Halim, G. Brabb, S. Chitgopekar, P. Couch, D. Eckrich, O. Ferrell, D. Fritzsche, C. Graeff, L. Graf, J. Grimm, R. Kerber, C. Mohr, L. Patterson, J. Perrachione, D. Robinson, J. Spalding.

Description and requirements for the Master of Business Administration degree are listed under the College of Business.

## Courses

Master of Business Administration candidates will not be permitted to include MAM 301, 327, 334, 335, 338 or MAM 385 in their Plans of Study.

**301 DECISION THEORY****3 sem. hrs.**

Behavioral and quantitative factors in business decision-making. Emphasis on quantitative methods of making decisions under conditions of uncertainty. Prerequisite: MAM 100 req. Not for graduate credit for MBA students.

**323 HUMAN RESOURCES MANAGEMENT****3 sem. hrs.**

Principles and procedures relating to manpower management, including staffing, appraisal, training, compensation, and other programs for business and other organizations. Prerequisite: MAM 220.

**324 INDUSTRIAL RELATIONS MANAGEMENT****3 sem. hrs.**

Managing employment relations and work conditions. Emphasis on negotiating, administering labor agreements, and impact of collective bargaining on managerial practice. Prerequisites: MAM 220 req. ECO 100 req.

**325 MANAGERIAL DECISION MAKING****3 sem. hrs.**

Treats decision making in the context of an interdisciplinary, interrelated process based on a solid foundation of managerial planning. Prerequisite: MAM 220 req.

**326 SMALL BUSINESS MANAGEMENT****3 sem. hrs.**

Field program designed to familiarize the student with the problems of small business owners and/or operators. The student acquires first-hand knowledge and experience by dealing with on-going businesses. Prerequisite: Graduate standing in Business.

**327 OPERATIONS MANAGEMENT****3 sem. hrs.**

Advanced consideration of decision-making tools applied to manufacturing and other operational areas. Case analyses place emphasis on production management problems. Prerequisite: MAM 227 req. Not for graduate credit for MBA students.

**329 PURCHASING POLICIES AND PROCEDURES****3 sem. hrs.**

Purchase of materials, supplies, and equipment for



industry, government, and other institutions. Organization for purchasing, internal requisitioning, and stock control. Prerequisite: ECO 100 req. ACC 131 req.

### **333 ADVERTISING MANAGEMENT**

**3 sem. hrs.**

The course emphasizes the major perspectives in advertising practice along with the techniques of behavioral and management sciences. Case studies are utilized with project reports. Prerequisites: MAM 230, 231, 232, 233 req.

### **334 SALES MANAGEMENT**

**3 sem. hrs.**

Application of functions of management to selling structure and sales problems of companies. Behavioral and quantitative disciplines used in case studies. Prerequisites: MAM 230, 231, 232 req. MAM 234 rec. Not for graduate credit for MBA students.

### **335 RETAILING MANAGEMENT AND PROMOTION**

**3 sem. hrs.**

Management and operation of retail firms. Emphasis will be on location, pricing, inventory, and promotion. Prerequisites: MAM 230, 231, 232, suggest MAM 235. Not for graduate credit for MBA students.

### **338 MARKETING MANAGEMENT**

**3 sem. hrs.**

Development and evaluation of the marketing plan. Includes analysis of actual and hypothetical cases. A term project will be included. Prerequisites: MAM 230, 231, 232 req. Not for graduate credit for MBA students.

### **339 SEMINAR IN MARKETING**

**3 sem. hrs.**

A specialized study of selected topics in the field of marketing for advanced students. Prerequisites: MAM 230, 231, 232 or 338 or conc reg. May be repeated once if a different topic and different instructor.

### **368 BUSINESS SIMULATION**

**3 sem. hrs.**

Applications of computer simulation techniques to business problems. Emphasis on systems approach to model building, analysis, and interpretation. Prerequisites: MAM 100 req. ACC 160 or equivalent req. Also offered as ACC 368.

### **385 PROBLEMS IN BUSINESS**

**MAM 100, 220, 230 req. ACC 132 req. FAL 240 req.**

Integration of the decision-making processes involved in each of the major functional areas of business.

**Not for graduate credit.**

### **401 RESEARCH METHODOLOGY**

**3 sem. hrs.**

See 497.

### **415 QUANTITATIVE METHODS FOR MANAGERIAL DECISIONS**

**3 sem. hrs.**

A study of the quantitative model building approach to managerial decisions. Topics include mathematical programming, network analysis, decision making under uncertainty, and waiting line analysis. Emphasis is placed on problem recognition and interpretation of solutions. Prerequisites: MAM 100 and MAM 227 req.

### **417 PROBLEMS IN OPERATIONS MANAGEMENT**

**3 sem. hrs.**

Applications of operations management and quantitative decision tools to production and operations management problems. Case studies place emphasis on formulation, analysis, and interpretation of results. Prerequisite: MAM 227 req and MAM 415 req.

### **419 SEMINAR IN QUANTITATIVE METHODS FOR BUSINESS**

**1-4 sem. hrs.**

Topics will vary with needs and interests of students and faculty. May be taken more than once if different material is covered. Offered irregularly.

### **420 ORGANIZATION STRUCTURE AND SYSTEMS**

**3 sem. hrs.**

Management and organization theory with emphasis on the design of organization structure and systems concepts. Prerequisite: MAM 220 req.

### **421 ANALYSIS OF ORGANIZATIONAL BEHAVIOR**

**3 sem. hrs.**

A study of how people in organizations respond to managerial and organizational practices, using a systems orientation to analyze how environmental factors influence organizational practices and climate. Topics include reactions of people to structure and control, problems of motivation and performance, resolution of inter-departmental conflicts, adaptation to change. Prerequisite: MAM 420 req.

### **426 SEMINAR IN MANAGEMENT**

**3 sem. hrs.**

Significant issues related to the management of people as well as management "functions" or "processes." Topics include: behavioral science and management, employee motivation, leadership, organizational communication, inter-organizational conflict, organization development, change, planning, objectives, control, values, ethics, social responsibility, and manpower management. May be taken more than once if different material is covered. Offered irregularly. Prerequisite: MAM 420 req.

### **430 ADVANCED MARKETING MANAGEMENT**

**3 sem. hrs.**

Marketing principles, behavioral concepts, and quantitative techniques utilized in analyzing marketing problems and decisions. Emphasis on the quantitative aspects of decision-making process in marketing. Prerequisites: MAM 100, 230 req.

### **431 ADVANCED CONSUMER BEHAVIOR**

**3 sem. hrs.**

An analysis of psychological, sociological, social psychological, and cultural forces that influence household and industrial purchasing behavior. Emphasis placed on examination of research related to these influencing forces and on the analysis of comprehensive models of consumer behavior. Prerequisite: MAM 430 req.

### **439 SEMINAR IN MARKETING**

**1-4 sem. hrs.**

Topics will vary with needs and interests of students and faculty. May be taken more than once if different material is covered. Offered irregularly.

**485 BUSINESS PROBLEMS AND POLICY****3 sem. hrs.**

An integration of the major decision-areas in business through the use of complex business cases or dynamic management simulations. Prerequisites: MAM 415, 420, 430 req.; FAL 440 req. Successful completion of screening examination.

**497 RESEARCH METHODOLOGY****3 sem. hrs.**

The procedure, techniques, and application of research methods in business. Problem analysis, measurement techniques, experimental design considerations, and report presentation. Analytical methods, including classical hypothesis testing, nonparametric tests, analysis of variance, linear and multiple regression, and multivariate statistics. Offered irregularly. Prerequisite: MAM 100 or equivalent req.



# COLLEGE OF EDUCATION

The College of Education includes the Departments of Curriculum and Instruction, Specialized Education Development, Educational Administration and Foundations, the Office of Clinical Experiences and Certification Processes, the Office of Research, Development and Field Services, and University Laboratory Schools. The College of Education has three broad missions: (1) rigorous preparation of quality instruction, supervisory, and administrative personnel to serve in all sectors of the economy in various capacities and at all levels of teaching and learning, (2) systematic study, research, and evaluation of education concerns within diverse cultural contexts plus the concomitant utilization of that research, for society's benefit, and (3) active involvement in service activities designed to improve the quality of life through education and to identify new directions for the College. The College administers clinical experiences in education and an admission-retention program in undergraduate teacher education in addition to offering a wide range of graduate programs, including doctoral programs in Educational Administration, Curriculum and Instruction, and Special Education.

The administrative officers of the College are Benjamin C. Hubbard, Acting Dean; John T. Goeldi, Director Undergraduate Programs; Larry D. Kennedy, Director Office of Research, Development, and Field Services; and Ronald L. Laymon, Director of Graduate Programs.

## Clinical Experiences and Certification Processes

**Director:** Louise E. Dieterle, 309 DeGarmo Hall.

### Student Teaching

#### 399 STUDENT TEACHING

(or C&I 253 for elementary education majors  
or C&I 263 for early childhood education  
majors)  
1-10 sem. hrs.

Graduate students who wish to do their Student Teaching must be admitted to a Teacher Education program a minimum of one semester prior to being assigned to do their student teaching.

To be eligible to do student teaching, a Graduate Student must meet all of the following requirements before being assigned to do student teaching:

1. Be formally admitted to an approved teacher education program of the University at least one semester prior to being assigned to do his/her student teaching.
2. Have completed 15 semester hours of work at Illinois State University.
3. Have completed satisfactorily all the professional education courses required in the specific sequence: elementary, junior high school, secondary, special education, early childhood education. Specific information related to the professional education courses that must be completed before assignment is made to student teaching is available in the Office of Clinical Experiences and Certification Processes.
4. Have successfully completed 100 clock hours of approved pre-student teaching clinical experiences prior to assignment to student teaching.

5. Have met the grade point requirement for admission to the graduate school in the major field as well as for the overall grade point average. If the departmental grade point average requirement is higher than that required by the graduate school, the departmental grade point average prevails.

Students need to meet specific grade point average requirements for student teaching required by the Office of Clinical Experiences and Certification Processes and the Department.

6. Have secured a statement from the University Health Service indicating that he/she is physically capable of meeting the requirements of a regularly certified teacher.

7. Have filed an application for student teaching for a given semester with the Director of Clinical Experiences at least six months prior to the semester in which the student teaching is planned.

8. Have been approved for student teaching by the chairperson of the department of the student's major and by the Director of Clinical Experiences.

Students who are working toward a master's or doctor's degree or taking course work leading to entitlement or endorsement should file an Intent to File for Certification form in the Office of Clinical Experiences and Certification Processes 309 DeGarmo Hall. All students who plan to receive certification for the State of Illinois via the approved ISU program must file official forms and follow specific procedures. Certification is not given automatically at the completion of specified course work or degree work.

Refer all questions concerning certification to the Office of Clinical Experiences and Certification Processes.

## CURRICULUM AND INSTRUCTION

**Chairperson:** James B. Kracht Office: DeGarmo Hall 232.

**Teaching Staff:** G. Baer, F. Belshe, N. Bettis, A. Bjork, L. Brown, L. Brubaker, J. Cantlon, J. Crofts, D. Curtino, L. Eastman, T. Edwards, R. Fisher, T. Fitch, D. Franks, W. Frinsko, W. Galler, J. Goeldi, R. Goodall, C. Hicklin, E. Mincey, J. Morris, E. Irving, D. Kachur, L. Kennedy, K. Kerber, F. Lewis, M. Lorber, N. Madore, S. Mungo, W. Pierce, W. Piland, D. Rhodes, V. Schnepf, A. Slan, A. Snow, F. Taylor, W. Venerable, M. Waimon, R. Youngs, W. Zeller.

### Doctor of Education in Curriculum and Instruction

The Department of Curriculum and Instruction offers work leading to the Ed.D. in Curriculum and Instruction. This multidisciplinary program is designed to prepare practitioners for educational leadership roles in both the public and private sector. Candidates may pursue courses of study related to service in positions such as instructional specialists in community and four-year colleges, curriculum coordinators at the pre-school, secondary, elementary level, community college teachers in selected applied areas, staff development or program assessment directors, or ed-

ucational specialists in government, professional organizations, business and industry. Students may elect to develop areas of concentration from within the College which may include curriculum, instruction, supervision, post-secondary education, counselor education, reading, educational administration, and/or research and foundations. Other areas of concentration may be available to students upon approval of the major advisor. Course requirements for the degree include a minimum of 9 sem. hrs. in Educational Foundations including statistics; minimum of 21 sem. hrs. in Curriculum and Instruction; minimum of 9 sem. hrs. in Cognate Studies offered outside the College of Education; minimum of 15 sem. hrs. in a Complementary Field; 6 sem. hrs. Internship; and a minimum of 12 sem. hrs. Dissertation. University requirements for the doctoral program are listed elsewhere in this catalog.

## Master's Degree Programs

Master's programs with advisement in the Department of Curriculum and Instruction are offered in Elementary Education and Secondary Education. University requirements for master's degrees are given elsewhere in this catalog. A student may elect one of three alternate plans for each of the degree programs. One may elect to do 32 hours of course work including a thesis for which the student may receive from four to six hours of credit in 499, or elect to do 32 hours of course work and take a comprehensive examination, or elect to do 39 hours of course work not including a thesis or a comprehensive examination. Specific course requirements are listed under the various programs.

Students enrolled in approved graduate programs leading to certification via the entitlement process or endorsement need to file appropriate forms in the Office of Clinical Experiences and Certification Processes, as soon as they are admitted into the specific graduate program. Certification is not an automatic procedure.

## Elementary Education

A student may work toward a Master of Arts, a Master of Science, or a Master of Science in Education degree by fulfilling the requirements specified in this catalog. Four essential components of the master's degree program in Elementary Education within which course requirements are to be fulfilled include Area I (Basic Studies); Area II (Special Techniques); Area III (Directed Electives); and Area IV (Issues) under ALTERNATIVE III only described below. The following three alternative programs are available in which electives, through advisement may be taken in related areas of concentration listed below.

**ALTERNATIVE I** is a 32 semester hours program requiring 26-28 hours in coursework plus four to six hours for thesis credit. The student is required to complete coursework under Area I (Basic Studies) C&I 403, EAF 410, C&I 439, and C&I 476; a minimum of twelve hours selected with advisement under Area II (Special Techniques) e.g., a generalist will be advised to select from the following C&I courses: C&I 404, C&I 405, C&I 450, C&I 452, C&I 453, C&I 477, or their equivalent; and the remaining hours under Area III (Directed Electives).

**ALTERNATIVE II** is a 32 semester hour program and a comprehensive examination. Course requirements are the same as in Option I.

**ALTERNATIVE III** is a 39 semester hour program applicable to the Master of Science in Education degree. Course requirements are the same as in Option I except that a minimum of nine semester hours must be completed under Area III (Directed Electives) and six hours under Area IV (Issues) C&I 479 and C&I 496. C&I 496 is required after that student has completed 27-30 semester hours, files a formal Plan of Study, and has been accepted for candidacy for a master's degree in Elementary Education.

### *Concentrations and Sequences:*

**Academic Field:** Students may elect to pursue a study concentration within an academic discipline (e.g., reading, mathematics, science education). Advisement appropriate to the area of study will be provided.

**Bilingual/Bi-cultural Education:** Students may elect to pursue a concentration of courses in bilingual/bi-cultural education leading to certification endorsement.

**Early Adolescence Education:** Students may select a sequence of courses for preparation to teach at the Junior High/Middle School level.

**Early Childhood Education:** Students may elect to pursue a concentration in early childhood education, including certification, relative to career objectives.

**Multicultural Education:** Special program alternatives are available for those students who wish to declare special career interests in multicultural education.

## Secondary Education\*

This individualized program is intended primarily for persons who are currently teaching or have had teaching experience. An adviser from the Department of Curriculum and Instruction, in consultation with advisers from the teaching fields, will assist in designing a program based upon particular backgrounds, interests, and needs. Courses or other learning experiences will be selected on the basis of previous course work, professional experience, tests of skills and knowledge, and professional goals.

One sequence under the master's degree in Secondary Education is available for those students preparing to teach at the Junior High/Middle School level. The students selecting this sequence will be required to complete C&I 421 Classical Functions of the Junior High School, C&I 422 Curriculum in the Junior High/Middle School: Foundations, Models, and Trends, and C&I 423 Methodological Patterns and Issues in Early Adolescent Education.

### *Admission Requirements:*

1. Certification to teach.
2. 3.0 G.P.A. for the last 60 semester hours of undergraduate work.
3. 3.2 G.P.A. in any graduate work taken prior to application for admission.
4. Scores on selected tests of English language usage may be required.

### *Program Requirements*

The 32-hour option with a thesis and the 32-hour option with a comprehensive examination will include at least



12 hours of work in professional education (see B below) and at least 12 hours in one or more of the academic departments. The remaining hours will be electives and may be taken in either professional education or the teaching field(s).

The 39-hour option will include a three-hour culminating experience. It may be initiated in the course EAF 410 Research Methodology and Statistics in Education I with assistance of the adviser. The course C&I 400 Independent Study or C&I 431 Individualized Field Work in Education could serve as the vehicle for the culminating experience, which could result in a research report, a course of study, a teaching manual, or other product acceptable to the instructors of the two courses. It is a project which should be worked on throughout much of the program and should combine theory and practice.

**A. Teaching Field(s): 12 semester hours**

**B. Professional Education: 12 semester hours of core courses.** The courses, which are to be completed by all candidates for the M.S. in Secondary Education include: EAF 410 Research Methodology & Statistics in Education I, EAF 428 Seminar in Foundations of Education, C&I 437 Analysis of Teaching, C&I 476 Curriculum Theory, C. Additional professional education electives (up to 12 semester hours depending on the option taken) may be selected through advisement from the four categories below:

1. C&I 332, 455, 580, EAF 510, SED 406, 407
2. PSY 360, 416, SAS 350, 369, EAF 328, 330, 335, 426
3. SED 306, C&I 421, 422, 423
4. SED 362, 363, C&I 477, EAF 487

Other courses may be taken through prior approval of the major adviser.

**D. Culminating Experience 3 semester hours (39 hour option only).**

\*Application for National Council for Accreditation of Teacher Education approval is being made.

## Supervision

### For Persons Not Desiring Certification

If a person outside the field of professional education has a need for a program in supervision but does not need certification, an individualized program can be designed to meet the needs. The student will be advised in the Department of Curriculum and Instruction but with close consultation with one or more people in other departments where the student may desire to do a considerable amount of his academic work.

## Courses

### 300 EDUCATIONAL ROLE OF PLAY IN EARLY CHILDHOOD

**3 sem. hrs.**

Emphasizes the process of play and its relationship to personal and cognitive development during the first eight years of life. Historical and current theories of play. Clinical experiences required.

### 301 PREKINDERGARTEN EDUCATION — PRINCIPLES AND PRACTICES

**3 sem. hrs.**

Principles and practices of planning, teaching, and evaluating prekindergarten programs. Emphasizes living-learning experiences, activities, materials, and equipment appropriate for children in prekindergarten environments. Clinical experience required.

### 302 PROSPECTUS IN ELEMENTARY EDUCATION

**3 sem. hrs.**

The evolution of elementary education including its role in contemporary society. No credit if in Elementary Education Core Program.

### 310 ELEMENTARY SCHOOL CURRICULUM

**4 sem. hrs.**

Conceptual and structural design of elementary school curriculum. Prerequisites: C&I 270, 280, or 390; or consent of instructor.

### 311 TEACHING IN URBAN SCHOOLS

**3 sem. hrs.**

Processes and effects of urbanization on students; adaptation of curriculum materials, techniques, procedures, and practices for teaching in urban schools. Includes clin. Exp.

### 312 URBAN FIELD EXPERIENCE

**3 or 6 sem. hrs.**

An off-campus, community-based experience in urban schools, local community agencies, and state and private institutions serving youth.

### 318 SCHOOL/COMMUNITY INVOLVEMENT

**2-6 sem. hrs.**

Direct involvement with community programs and agencies. Student assumes the role of a volunteer participant under the guidance and supervision of a professor and a designated agency representative. Prerequisites: Conc reg req. C&I 253 and consent of center director. Includes clinical experiences.

### 332 EDUCATION IN THE INNER CITY

**3 sem. hrs.**

Problems of educating students living in inner city. Student characteristics, needed teacher skills and attitudes, instructional materials, techniques, school and community programs. Prerequisite: C&I 270 or 280 or 290 or appropriate portion C&I 200. Field trips. Includes Clin. Exp.

### 333 JUNIOR HIGH/MIDDLE SCHOOL

**(Formerly THE JUNIOR HIGH SCHOOL)**

**3 sem. hrs.**

Philosophy, functions, curricula of early adolescent education as implemented in junior high/middle schools. Relationships between pupils' developmental characteristics, needs, and behaviors and development of school programs. Problems, issues, evaluation, and accreditation of junior high/middle schools.

### 353 CONTEMPORARY PROGRAMS IN SCHOOL SCIENCE

**3 sem. hrs.**

Student investigations of ESS, SCIS, AAAS, COPES, materials commensurate with the teaching grade level. Emphasis placed on the investigative approach to the teaching of science. Includes clinical experiences.

### 354 DEMONSTRATION TECHNIQUES IN ELEMENTARY SCHOOL SCIENCE

**2 sem. hrs.**

Basic theory, rationale, and principles of effective demonstration science teaching in elementary school sci-

ence. Includes analysis, synthesis, and utilization of both commercial and individually constructed demonstration apparatus and materials. Students will develop and use demonstration materials. Prerequisite: C&I 230 or 252 or consent of instructor.

### **355 ALTERNATIVES IN EDUCATION**

**3 sem. hrs.**

The role of alternatives in education, development of and need for alternative approaches in teaching the wide spectrum of students.

### **390 JUNIOR HIGH/MIDDLE SCHOOL CURRICULUM**

**(formerly C&I 290)**

**3 sem. hrs.**

Methods and materials for teaching-learning experiences at this school level; instructional strategies; classroom management; guidance techniques; and pupil evaluation. Prerequisites: SED 306 and C&I 333 or conc reg or cons inst.

### **403 ORGANIZATION AND MANAGEMENT OF CLASSROOM LEARNING**

**3 sem. hrs.**

The role of the classroom teacher in effective learning practices in the changing school setting. Organizing the school for effective living and learning; effective approaches to learning in the various curriculum areas in order to care for individual differences among students in the classroom.

### **404 INSTRUCTIONAL PROCEDURES IN ELEMENTARY EDUCATION**

**3 sem. hrs.**

Study of selected instructional procedures employed in elementary education. Planning for instruction, determining of educational goals, nature of substantive content, and the uses of staff. Prerequisite: Consent of instructor.

### **405 NURSERY-KINDERGARTEN EDUCATION**

**3 sem. hrs.**

Criteria and procedures for developing, organizing, and administering early education programs. Intended for persons who plan to be responsible for the establishment and supervision of nursery-kindergarten programs.

### **421 CLASSICAL FUNCTIONS OF THE JUNIOR HIGH SCHOOL/MIDDLE SCHOOL**

**3 sem. hrs.**

Study of the classical functions of early adolescent education and the relationship of these functions to contemporary institutional/instructional settings.

### **422 CURRICULUM IN THE JUNIOR HIGH/MIDDLE SCHOOL: FOUNDATIONS, MODELS, AND TRENDS**

**3 sem. hrs.**

Exploration of theoretical foundations/contemporary models/trends, with emphasis upon implications of curricular thrusts for effective education. Prerequisites: C&I 421 or consent of instructor.

### **423 METHODOLOGICAL PATTERNS AND ISSUES IN EARLY ADOLESCENT EDUCATION**

**3 sem. hrs.**

Examination of methodological patterns and issues in the education of early adolescents in upper grade/junior high/middle schools. Prerequisite: C&I 421 or consent of instructor.

### **430 WORKSHOP IN EDUCATION**

**2-6 sem. hrs.**

For experienced professional workers in the field of education. Emphasis given to serving superintendents, principals, supervisors, and teachers, who are presently responsible for some aspect of curriculum study and/or program improvement in their schools. Prerequisite: Teaching experience.

### **431 INDIVIDUALIZED FIELD WORK IN EDUCATION**

**2-3 sem. hrs.**

Direct experiences in working with elementary or high school students, public school curricula, and staff and/or community groups involved in public school programs are provided. Approval for selecting this course and arranging for individual field work must be made by the department chairperson.

### **435 INSTRUCTIONAL SYSTEMS DEVELOPMENT**

**1 sem. hr.**

Cross-listed in Information Sciences. Not to be repeated.

### **437 ANALYSIS OF TEACHING**

**3 sem. hrs.**

A systematic examination of the theory and practice of teaching. Readings, mediated and direct observation. Emphasis on descriptive studies and conceptual models of teaching, their nature, and possible uses.

### **439 APPLIED CHILD GROWTH AND DEVELOPMENT FOR THE ELEMENTARY TEACHER**

**3 sem. hrs.**

Application of principles of child growth and development in the elementary classroom. Practice in the use of scientific procedures in the discovery of causes and the solution of classroom problems. Prerequisite: C&I 210 or consent of the instructor.

### **450 LANGUAGE ARTS INSTRUCTIONAL STRATEGIES**

**3 sem. hrs.**

Analysis and application of learning theories and child growth and development principles to curriculum organization, instructional materials, and techniques for elementary school language arts programs.

### **452 ELEMENTARY SCHOOL SOCIAL STUDIES: INSTRUCTIONAL STRATEGIES**

**3 sem. hrs.**

Utilization of the structure, concepts, and modes in inquiry of the social sciences in implementing curriculum trends and innovations in elementary school social studies programs. Instructional strategies, such as inquiry and simulation, techniques for developing skills, understandings and attitudes characteristic of the social studies.

### **453 ELEMENTARY SCHOOL SCIENCE: INSTRUCTIONAL STRATEGIES**

**3 sem. hrs.**

Analysis and application of current research findings to the selection, construction, utilization, evaluation, and implementation of science instructional materials.

### **454 INDIVIDUALIZING SCIENCE INSTRUCTION**

**3 sem. hrs.**

Rationale, psychological basis of, principles, and theories of individualizing science instruction; the role of the teacher, the learner, classroom management, evaluating pupil progress, and implementation procedures will be



considered. Primary emphasis upon construction of individualized instruction modules in science.

#### **455 INSTRUCTIONAL SKILLS FOR INQUIRY TEACHING**

**3 sem. hrs.**

A study of verbal and non-verbal classroom (K-12) interactions including clinical experiences. Cognitive and affective strategies for achieving inquiry oriented objectives, and selection of learning materials conducive to inquiry learning. Prerequisite: teaching experience.

#### **456 ISSUES AND TRENDS IN SECONDARY SCHOOL SCIENCE EDUCATION**

**3 sem. hrs.**

Review of current literature, comparative studies of new curriculum materials, analysis of instructional methods and goals for science education (6-12), and development of proposal to investigate further one of the concerns identified. Prerequisite: teaching experience.

#### **472 TEACHING IN THE COMMUNITY COLLEGE**

**3 sem. hrs.**

History and development, philosophic base, functions, purposes, characteristics of faculty and students, curricula and curriculum development, instructional methods, measurement and evaluation, and student services. The course is designed to improve instruction in the community college.

#### **474 STUDIES IN COLLEGE TEACHING**

**1-4 sem. hrs.**

A study of the competencies necessary for effective teaching in higher education. The course consists of four components which may be taken separately or in combination. These components are: 1) roles and responsibilities of the college teacher; 2) the analysis of instruction in higher education; 3) instructional strategies and techniques; 4) the evaluation of instruction. Each student is also expected to undertake reading and research on problems of college teaching in his/her area of specialization. May be repeated for credit if different components are taken. Prerequisite: Graduate standing.

#### **475 PROFESSIONAL LABORATORY EXPERIENCE**

**3 sem. hrs.**

The role of professional laboratory experiences in teaching and learning. Significant trends, philosophies, and programs of teacher education. For experienced teachers, supervisors of instruction, school administrators, and college teachers associated with teacher education programs.

#### **476 CURRICULUM THEORY**

**3 sem. hrs.**

Basic theoretical assumptions which support existing curriculum models. Introduction to the process of curriculum development. Relation of the planning process elements to curriculum models.

#### **477 SUPERVISION OF INSTRUCTION**

**3 sem. hrs.**

Fundamentals of supervision as it relates to improvement of instruction, teacher inservice, group leadership, evaluation of instruction, and staff development. Includes clinical experiences.

#### **478 SEMINAR IN SUPERVISION OF INSTRUCTION**

**3 sem. hrs.**

Prerequisite: C&I 477.

#### **479 RESEARCH STUDIES IN ELEMENTARY CURRICULUM**

**3 sem. hrs.**

Examination of the professional literature that reports established trends, research efforts, and practice in elementary curriculum. Emphasis on the broad themes which transcend the separate disciplines in elementary education. Prerequisite: C&I 476 or consent of instructor.

#### **481 SEMINAR IN CURRICULUM EVALUATION**

**3 sem. hrs.**

Seminar for graduate students interested in evaluating curricula. At the end of the seminar participants will have systematically obtained data on an innovative project, and made value-assessments of the project based on these data. The evaluation studies may be used to improve the project studies, or as the basis for a doctoral dissertation, or publishable paper. Prerequisite: C&I 476 or consent of instructor.

#### **487 ADVANCED EARLY CHILDHOOD DEVELOPMENT/EDUCATION**

**3 sem. hrs.**

The utilization of current concepts in early childhood development/education to be made available to graduate students who are working in schools and other appropriate educational settings. Prerequisite: Professional experience with children.

#### **488 DESIGN AND IMPLEMENTATION OF CONTEMPORARY COMPREHENSIVE EARLY CHILDHOOD EDUCATION PROGRAMS**

**3 sem. hrs.**

The design and implementation of programs concerned with infants, toddlers, pre-kindergarten, and early elementary school children in educational settings. Prerequisites: Professional involvement in an agency or institution providing early childhood education programs.

#### **491 INTERNSHIP IN COLLEGE TEACHING**

**3 sem. hrs.**

Observation and teaching in the student's major area, with other experiences appropriate to academic advisement at the college level. Offered in cooperation with the student's major department. Prerequisite: Graduate standing.

#### **493 PERSPECTIVES OF TEACHER EDUCATION**

**3 sem. hrs.**

For advanced graduate students preparing for positions associated with the preparation of teachers and specialized school personnel. Admission, curricula, instruction, certification, accreditation, evaluation, problems, issues, and trends in the selection and preparation of teachers. Prerequisite: Master's degree or permission of instructor.

#### **495 SEMINAR IN CURRICULUM**

**3 sem. hrs.**

Major developments and experimental programs impacting upon school curricula. Students identify curriculum innovations for research. Prerequisite: Advanced graduate standing or special permission of the instructor and C&I 476.

#### **496 SEMINAR IN ELEMENTARY EDUCATION**

**3 sem. hrs.**

Prerequisite: 27-30 semester hours, filed a formal Plan of Study, and has been accepted for candidacy for a master's degree in Elementary Education.

**498 PROFESSIONAL PRACTICE**

3-8 sem. hrs.

Refer to General Courses.

**499 MASTER'S THESIS**

1-6 sem. hrs.

**521 COLLOQUIUM: CURRICULUM, SUPERVISION/ FACULTY DEVELOPMENT, INSTRUCTION**

1-3 sem. hrs.

Examination of the impact of policy decisions related to curriculum, instruction and faculty development. Focus is on alternative responses to policy positions rather than new formulations. Prerequisite: C&I 476, advanced graduate standing, teaching experience and/or experience in instructional program development or consent of the instructor. (C&I 477, 437 are recommended)

**523 SYSTEMS ANALYSIS APPROACH TO LEARNING**

1-2 sem. hrs.

Student may enroll in any one or two of the three components for credit.\*

Component A — 1 semester hour

The goal referenced instructional learning model is explored as the basic theoretical foundation for the systems analysis approach to learning. The current status of the systems analysis approach in education today is described along with the use of behavioral objective as the first step in the use of the systems approach.

Component B — 1 semester hour

Students select a curricular area in which the systems approach is applicable and design a modified system for it. At least one model self-instructional package is built as an integral part of that system.

Component C — 1 semester hour

Students select a system currently in operation, and using developed criteria evaluate that system. Adjustments to the system are then suggested and defended.

\*Students wishing to earn three hours credit should enroll in Information Sciences 435.

**524 SEMINAR IN EDUCATIONAL EVALUATION**

3 sem. hrs.

A project/seminar approach to the application of theory to problems related to the measurement and/or evaluation of learning or instructional methods, materials or policies.

**530 CURRICULUM AND INSTRUCTIONAL PATTERNS IN POST-SECONDARY EDUCATION**

2 or 3 sem. hrs.\* \*

Major curricular and instructional patterns in colleges, universities, and continuing education programs; relationships to institutional missions and student clientele. \* \* **Variable credit option open only to D.A. students; all other students must enroll for 3 credit hours.**

**531 THEORY OF CURRICULUM POST SECONDARY EDUCATION**

2 or 3 sem. hrs.\* \*

Major curriculum theories will be used for comparative analysis and research of specific movements. Individualized research and comprehensive reading requirement. Prerequisite: Consent of instructor.

\* \* **Variable credit option only to D.A. students; all other students must enroll for 3 credit hours.**

**532 CURRICULUM DESIGN/DEVELOPMENT IN POST-SECONDARY EDUCATION**

3 sem. hrs.

Systematic applications of curriculum design/ development principles and models to meet institutional, instructional or program unit development needs. \* \* **Variable credit option open only to D.A. students; all other students must enroll for 3 credit hours.**

**535 THE STUDENT IN POST-SECONDARY EDUCATION**

2 or 3 sem. hrs.\* \*

Characteristics of older, disadvantaged, and "neo-traditional" post-secondary students in relation to developing programs which meet their diverse instructional, counseling, and administrative service needs. \* \* **Variable credit option open only to D.A. students; all other students must enroll for 3 credit hours.**

**537 ANALYSIS OF INSTRUCTION IN POST-SECONDARY EDUCATION**

2 or 3 sem. hrs.\* \*

Systematic inquiry into post-secondary instructional theory and practice incorporating the professional experiences of college, university, and continuing education personnel. Prerequisite: advanced graduate standing or consent of instructor. \* \* **Variable credit option open only to D.A. students; all other students must enroll for 3 credit hours.**

**538 DESIGN AND EVALUATION OF INSTRUCTION IN POST-SECONDARY EDUCATION**

2 or 3 sem. hrs.\* \*

Major conceptions, elements, and processes of instructional design and evaluation in colleges, universities, continuing education and personnel training programs. Prerequisite: advanced graduate standing or consent of instructor, C&I 530 is recommended. \* \* **Variable credit option open only to D.A. students; all other students must enroll for 3 credit hours.**

**576 PRINCIPLES OF CURRICULUM IMPROVEMENT**

3 sem. hrs.

Examination of forces influencing curriculum improvement. Focuses on analysis of curriculum problems, rather than prescriptive answers. Prerequisite: Teaching experience or consent of the instructor.

**577 ADVANCED PRINCIPLES AND PRACTICES IN SUPERVISION**

3 sem. hrs.

Course focuses on evaluation of instruction, in-service education, clinical supervision, supervisory skills. Research is applied in clinical settings. Prerequisite: C&I 477 or consent of the instructor.

**580 RECENT RESEARCH IN SECONDARY EDUCATION**

3 sem. hrs.

Comprehensive review of recent research. Students will gather recent research from dissertations, theses, and current periodicals. This research will be synthesized, analyzed, and evaluated. Prerequisite: EAF 410. It is suggested that C&I 476 be taken prior to this course.

**593 RESIDENT SEMINAR**

1 sem. hr.

For advanced resident graduate students in education. May be repeated. Prerequisite: Advanced graduate standing.



**594 RESEARCH SEMINAR IN EDUCATION****3 sem. hrs.**

Designed for dissertation proposal development for doctoral students. Emphasis on the design of a proposal ready for committee consideration. Study of the various methodological and design components. Successful completion of the work is the approved proposal.

**598 DOCTORAL INTERNSHIP****6 sem. hrs.**

An internship providing for the integration of academic content materials with the role expectations of professional personnel.

**599 DISSERTATION RESEARCH****Variable credit**

Research relating to research requirements for Doctor of Education degrees. Approval of the chairperson of the department of the program in which the student is enrolled is required.

## EDUCATIONAL ADMINISTRATION AND FOUNDATIONS

**Chairperson:** Clayton Thomas. Office: 331 DeGarmo Hall.

**Teaching Staff:** V. Adams, J. Brickell, C. Bunke, M. Chambers, P. Dearborn, D. Franklin, R. Halinski, G. Heath, G. A. Hickrod, B. Hubbard, D. Jackson, R. Laymon, N. Lovell, M. A. Lynn, F. Matsler, J. McCarthy, J. H. McGrath, R. Riegler, C. Sabine, C. Sherman, J. Smith, H. Stern, C. Thomas, G. Tubb.

### Programs Offered

Work leading to a master's degree, Certificate of Advanced Study, and the Ed.D. and Ph.D. degrees is offered in Educational Administration. Programs are also available for persons holding graduate degrees who wish to meet administrative certification requirements. The department also offers course work in the areas of educational foundations, research and evaluation.

#### Master's Degree Program

At least 21 semester hours of course work in Educational Administration and supervision as approved by the department as equivalent are required including C&I 476; EAF 410, 478, 479, 481, and 485; SAS 465; and for the 39-hour master's degree program described below, EAF 482. Additional courses are selected with the recommendations and consent of the adviser in this curriculum.

Students without teaching experience may be admitted to this program but will be expected to obtain experience in education prior to certification for administrative positions in Illinois public schools.

University requirements for master's degree programs are listed elsewhere in this catalog. In addition to the regular requirements, a Master of Science in Education may be awarded in Educational Administration upon the completion of 39 hours of course work provided that the above requirements are met and at least six hours are taken in fields other than Education.

A program in Special Education Administration is offered in cooperation with the Department of Special Education. Consult the chairperson of either department for details of the program.

### Certificate of Advanced Study

The Department of Educational Administration offers a course of study leading to a Certificate of Advanced Study (CAS). The purpose of this sixth year of study is to permit students to specialize within the field of educational administration. Completing appropriate course requirements and having proper field experience may lead to General Administrative, Chief School Business Official, and/or Superintendent's endorsements.

The minimum course work for the CAS is 30 semester hours beyond the master's degree. Eighteen semester hours are required with an additional twelve hours taken from the area in which the student desires specialization. Candidates without masters' degrees in educational administration may have programs in excess of 30 semester hours for some areas of specialization and/or administrative endorsements. Regardless of specialization, all candidates are required to complete Educational Administration and Foundations 582, 480, 598, 588 and Information Sciences 423. In addition, candidates seeking certification must have completed the necessary courses for the endorsement sought as a part of their master's degree or as part of the CAS program.

Requirements for admission to the program and to candidacy are listed elsewhere in this catalog.

### Doctoral Programs

The Department offers work leading to the Certificate of Advanced Study and the Ed.D. and Ph.D. degrees in Educational Administration. These degrees have as their major purpose the preparation of administrators in educational institutions at all levels. In addition, these degrees may prepare individuals for research positions in educational administration. University requirements for these degrees are listed elsewhere in this catalog.

### Cooperative Program with Sangamon State University

Through joint agreements with Sangamon State University, students may take approved courses from either of the universities and receive commensurate credit toward a Certificate of Advanced Study in educational administration which will be awarded by Illinois State University. Students in the program must take a minimum of 15 hours, with Illinois State University faculty on either campus. The ISU faculty will regularly offer course work at the Sangamon State University campus.

### Certification Programs

Requirements for administrative endorsements may be met through the Certificate of Advanced Study or the degree programs in educational administration. However, individuals desiring administrative endorsements must also apply for these endorsements with the Director of Clinical Experiences and Certification Processes upon admission to one of these programs. All applicants for administrative

endorsements must be admitted to the Certificate of Advanced Study or one of the degree programs.

The General Administrative, Superintendent and Chief School Business Official's endorsements all require teaching and/or administration experience. Students are requested to confer with personnel in the Office of Clinical Experiences in Teacher Education regarding these requirements.

## Foreign Language Requirements for Ph.D. Candidacy

General Graduate School requirements apply. However, when approved by the Chairperson of the Department of Educational Administration and Foundations and the Dean of the Graduate School, a student may substitute for one or both of the language requirements for the Ph.D. All Ph.D. candidates must be certified to conduct research as evidenced by one of the following:

1. Reading knowledge of two foreign languages.
2. Advanced knowledge of one foreign language.
3. Reading knowledge of one foreign language and advanced competency in research methodologies and statistics. Evidence of the latter may be shown by one of the following:
  - a. Successful completion of EAF 510, 511, and 512, Research Methodology and Statistics in Education II, III, and IV or equivalent, or
  - b. Passing an examination showing proficiency expected of one having completed EAF 510, 511, and 512.
4. Research methodologies and statistics through EAF 512 and certification of research competency in a discipline. Evidence of research proficiency in a discipline other than a language may be shown by one of the following:
  - a. Successful completion of research-oriented course work in a discipline, prescribed by the academic adviser in consultation with an ISU professor in the appropriate discipline. Prescribed course work may not be less than 12 semester hours at the 400 level or above. Completion of the prescribed course work does not necessarily guarantee certification of proficiency. At the completion of the course work, the professors prescribing the course work shall determine that the student is competent to conduct original research in the discipline, or
  - b. Passing an examination showing proficiency expected of one having completed the prescribed course work. An examination prepared for this option shall be the joint responsibility of the appropriate department and the Department of Educational Administration and Foundations.
5. Certification of research competencies in two disciplines other than a language.
6. Reading knowledge of one foreign language and certification of research competency in a discipline other than a language.

## Courses

### 326 SELECTED TOPICS IN THE PHILOSOPHY OF EDUCATION (formerly C&I 326)

1-3 sem. hrs.

Prerequisite: EAF 231 or Upper Level PHI course or consent of instructor. May be repeated.

### 331 HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION (formerly C&I 331)

3 sem. hrs.

Emphasis given to major events and theories having an impact on Early Childhood Education in its contemporary form. Prerequisite: C&I 300 or 301.

### 335 HISTORY OF EDUCATION (FORMERLY C & I 335)

3 sem. hrs.

Development of European & American Educational systems and programs. Historical perspective of modern educational problems.

### 336 INTRODUCTION TO COMPARATIVE EDUCATION (FORMERLY C & I 336)

3 sem. hrs.

Comparative analysis of major ideas and institutions of selected national systems of education. Problems related to developments in American education.

### 410 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION

3 sem. hrs.

The development of skills required in the planning and executing of a research study; introduction to descriptive and inferential statistics.

### 424 EDUCATIONAL CLASSICS

3 sem. hrs.

Historic conceptions of education and their relevance to programs and practices today. Readings in the works of such leading educational thinkers as Plato, Locke, Rousseau, and Dewey. Prerequisite: One course in history or philosophy of education or consent of instructor.

### 426 EDUCATION AND SOCIAL ISSUES

3 sem. hrs.

Analysis of the relationship between educational institutions and the larger society. Emphasis on the problems raised for educators by race, religion, social class, youth sub-cultures, and the allocation of human resources. Prerequisites: Graduate standing in Education, Economics, Sociology, Political Science, or consent of instructor.

### 428 SEMINAR IN FOUNDATIONS OF EDUCATION

2-3 sem. hrs.

Intensive inquiry into the educational significance of problems generated by philosophical, social, or historical issues. Prerequisite: One graduate level course in the discipline appropriate to the study undertaken, or consent of the instructor.

### 430 WORKSHOP IN EDUCATION

2-6 sem. hrs.

Planned experience designed to meet the in-service needs of professional personnel in education.

### 431 INDIVIDUALIZED FIELD WORK IN EDUCATION

2 or 3 sem. hrs.

(See Curriculum and Instruction 431). Consent of Department Chairperson.



**432 PHILOSOPHY OF EDUCATION****3 sem. hrs.**

Philosophical inquiry into concerns basic to education. Emphasis on investigation of fundamental educational issues utilizing philosophical concepts, views, techniques, and modes of thought. Prerequisite: An undergraduate course in philosophy of education or consent of instructor.

**447 ADMINISTERING EDUCATIONAL PROGRAMS FOR EXCEPTIONAL CHILDREN****3 sem. hrs.**

Principles and problems involved in administration of educational programs for exceptional children.

**448 ADMINISTRATION OF SPECIAL EDUCATION FOR GENERAL SCHOOL ADMINISTRATORS****3 sem. hrs.**

A course to prepare general school administrators to work with special educators in providing a free appropriate public education for handicapped students who reside in their districts.

**473 ORGANIZATION AND ADMINISTRATION IN COMMUNITY COLLEGES****3 sem. hrs.**

Organizational structure, historical and legal bases, mission, enrollments, governance, finance, staff selection and development, negotiations, curricula, community relations, buildings and sites, problems, issues, and trends. The community college is studied in relation to other units of higher education.

**478 LEGAL BASES OF PUBLIC EDUCATION****3 sem. hrs.**

Legal aspects of public education with emphasis on constitutional law, the Illinois School Code, and judicial rulings. Examination of rights and responsibilities of boards, administrators, teachers and students.

**479 FINANCIAL BASES OF PUBLIC EDUCATION****3 sem. hrs.**

Acquaints students with major concepts, research, and public policy controversies in school finance.

**480 EDUCATIONAL FACILITIES PLANNING****3 sem. hrs.**

School sites, buildings, and equipment with emphasis on planning of building programs.

**481 ADMINISTRATION AND ORGANIZATION OF SCHOOLS****3 sem. hrs.**

Principles of administration and organization of the school relating to the functioning of the public school system at the local, intermediate, state and national levels are explored. Special attention is directed towards selection, retention and evaluation of personnel, curriculum development, recordkeeping, and the relationship of school to community.

**482 ADMINISTRATION SEMINAR****3 sem. hrs.**

Culminating seminar for 39-hour master's degree program. Emphasis upon changing educational relationships, students' major concerns, and current problems. Prerequisite: Enrolled in last semester 39-hour program or after completion of required Educational Administration and Foundations courses, or consent of Department Chairperson.

**483 MANAGEMENT OF EDUCATIONAL FUNDS****3 sem. hrs.**

Development of high competence and deeper concepts of school finance, with particular emphasis on the management phase. Includes management of all school funds, program budgeting, financial accounting, financial statements and reports, safeguards, debt service, and management of special problems of finance. Prerequisite: EAF 479 or approval of instructor.

**484 ADMINISTRATION OF CONTINUING EDUCATION AND PUBLIC SERVICE****3 sem. hrs.**

Administration of continuing education and public service; emphasis upon developing, financing, staffing, sustaining, and administering continuing education and public service of all educational institutions. Prerequisite: Admission for graduate work.

**485 THE PRINCIPALSHIP****3 sem. hrs.**

Development of knowledge and competencies of the school building principal. Prerequisite: EAF 481 or consent of Department Chairperson.

**486 PERSONNEL ADMINISTRATION****3 sem. hrs.**

Provides general understanding of personnel functions in education. Special emphasis on manpower planning, recruitment selection, and appraisal of personnel and negotiations.

**487 ORGANIZATION DEVELOPMENT****3 sem. hrs.**

Emphasis will be on conceptual understanding and skill development in planned change, conflict management, interpersonal communications, group processes, and team building as they relate to improving organizations.

**498 PROFESSIONAL PRACTICE****3-8 sem. hrs.**

Refer to General Courses.

Prerequisite: Recommendation of adviser at least two months prior to beginning of semester.

**499 MASTER'S THESIS****1-6 sem. hrs.****510 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION II****3 sem. hrs.**

Logic of statistical inference, introductory study of analysis of variance and multiple regression, survey research, designing small-scale evaluation studies. Prerequisite: EAF 410 or equivalent.

**511 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION III****3 sem. hrs.**

Measurement theory, criterion-referenced testing, multivariate analysis using statistical computer programs, designing large-scale evaluative studies. Prerequisite: EAF 510 or equivalent.

**512 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION IV****1-6 sem. hrs.**

Provides for individualized and advanced study of methodology specific to the student's research interest. Consult instructor prior to registration. Prerequisite: EAF 511 or consent of instructor.

**520 FOUNDATIONS OF AMERICAN HIGHER EDUCATION****1-3 sem. hrs.**

Studies of the major historical and philosophic dimensions of American higher education and their relationship to significant contemporary issues.

**522 ANALYZING EDUCATIONAL POLICY****3 sem. hrs.**

Systematic inquiry into the structure, process, and justification of educational policy and policy-making utilizing the techniques of philosophical analysis. Prerequisite: advanced graduate standing or consent of instructor. EAF 426 and/or 432 are recommended.

**547 SEMINAR IN ADVANCED COORDINATION OF SPECIAL EDUCATION****3 sem. hrs.**

An advanced seminar in the coordination of special education programs in educational settings. Emphasis is on the administrative skills and knowledge required to design and implement programs consistent with established public policy in the subject area. Topics include: planning for special education programs, program development, program operation and management, staff selection and development, the federal-state-local system of services budgeting and fiscal management, and program evaluation and reporting. Prerequisites: EAF 478, 479 or, consent of instructor.

**561 ORGANIZATIONAL PATTERNS IN HIGHER EDUCATION****3 sem. hrs.**

Goals, policies, practices, and problems of contemporary American Higher Education. Introduction to the literature of higher education.

**562 UNIVERSITY FISCAL ADMINISTRATION****3 sem. hrs.**

Collection and utilization of basic data for decision making, evaluating the educational environment, allocation and utilization of resources, and systems of planning at the institutional level.

**563 CRUCIAL ISSUES IN ADMINISTRATION OF AMERICAN HIGHER EDUCATION****3 sem. hrs.**

Topics will vary and students will do research on selected critical issues. Prerequisite: EAF 561 or Consent of Instructor.

**570 PUBLIC FINANCING OF HIGHER EDUCATION****3 sem. hrs.**

An investigation of topics and problems in the public finance of higher education. Topics will vary each semester but the following will usually be covered: Revenue policy and expenditure policy for higher education, program and performance budgeting and other efficiency concerns, investment in education and national economic growth, aspects of the business management of higher education. Course is cross-listed as ECO 47C. Prerequisite: EAF 479, ECO 401, or permission of instructor.

**571 COLLEGE ADMINISTRATION****3 sem. hrs.**

Understanding of the complexity and unique qualities needed to direct and govern institutions of higher education. Prerequisite: EAF 561 or Consent of the Department Chairperson.

**576 ADMINISTRATION OF INSTRUCTIONAL PROGRAMS****3 sem. hrs.**

Administrative strategies for implementing, maintaining, changing, and evaluation of instructional programs and curriculum. Prerequisites: EAF 485 and C&I 476 or Consent of Instructor.

**578 LEGAL BASES OF HIGHER EDUCATION****3 sem. hrs.**

This course may be repeated as the course topic changes. The three topics are: Faculty and Staff Before the Bench; Law of the Student and College; and Entity, Property, and Finance. For persons holding a master's degree in any field. Prerequisite: Advanced graduate standing or consent of instructor.

**579 RESEARCH SEMINAR ON THE PUBLIC FINANCE OF EDUCATION****3 sem. hrs.**

Seminar for graduate students who wish to understand and conduct research on the financing of education at K-12, junior college, and higher education levels.

**582 ADMINISTRATION AS A SCIENCE AND AS AN ART****3 sem. hrs.**

Second course in a basic sequence of an administration core; sociological and behavioral implications for organization and administration. Prerequisites: EAF 481 or EAF 561 or consent of instructor and advanced graduate standing. Not open to master's students.

**583 EDUCATIONAL LEADERSHIP****3 sem. hrs.**

Designed to provide an understanding of the leadership function in formal and informal organizations. Required of all doctoral candidates in school administration. Prerequisites: EAF 582 and admission to the doctoral program.

**584 SUPERINTENDENT AND CENTRAL STAFF****3 sem. hrs.**

Development of knowledge, responsibilities, and competencies required of chief administrative officer, and in the case of larger districts, his/her central staff. Prerequisite: Advanced graduate standing.

**588 FIELD WORK IN EDUCATIONAL ADMINISTRATION****3-4 sem. hrs.**

Provides responsibilities and experiences in the study of administrative problems in school-community setting. Prerequisites: Advanced graduate standing and consent of instructor.

**593 RESIDENT SEMINAR****1 sem. hr.**

For advanced resident graduate students in education. May be repeated. Prerequisite: Advanced graduate standing.

**594 RESEARCH SEMINAR IN EDUCATION****3 sem. hrs.**

Designed for dissertation proposal development for doctoral students. Emphasis on the design of a proposal ready for committee consideration. Study of the various methodological and design components. Successful completion of the work is the approved proposal.

**596 ADVANCED SEMINAR IN EDUCATIONAL ADMINISTRATION****3 sem. hrs.**

Designed for advanced graduate students in Educational Administration. Content will vary according to the



needs of students and the emerging problems that need depth study. May be repeated providing the subject matter is not repeated. Prerequisite: Advanced graduate standing.

### 599 DISSERTATION RESEARCH

#### Variable credit

Research relating to research requirements for Doctor of Philosophy and Doctor of Education degrees. Approval of the chairperson of the department of the program in which the student is enrolled is required. Maximum of 16 semester hours credit in research may be counted toward residency.

## SPECIALIZED EDUCATIONAL DEVELOPMENT

**Chairperson:** James E. Walker. Office: Fairchild Hall 109.

**Teaching Staff:** G. Amerson, R. Baker, E. Bauer, K. Beckman, J. Birkenholz, J. Bommarito, M. Bowen, F. Bowren, T. Caldwell, D. Cochran, R. Conyne, R. Eiben, J. Ewing, I. Greif, J. Hadden, R. Hemenway, M. Huser, V. Jackson, T. Jones, D. Livers, R. Meyering, W. Miller, A. Milliren, L. Morreau, F. Noyes, S. Price, L. Rapin, E. Rex, R. Rittenhouse, J. Sedlak, K. Stearns, J. Stephens, D. Tucker, J. Walker.

## Programs Offered

### Doctoral Program

The Department of Specialized Educational Development offers a Doctor of Education in Special Education which is an Illinois Regency Degree. The program leading to the degree is a joint program offered by Illinois State University and Northern Illinois University. The faculty and other resources of both universities are available to those students admitted to the Regency Doctor of Education in Special Education program. The program is designed to prepare individuals in teacher education, special education management, and program design and research/evaluation in special education. Admission to the program normally requires possession of the master's degree and professional experience relevant to the education of exceptional children and youth. The doctoral student's program is highly individualized, based on educational and professional experience and career plans. The student's program will include formal course work, independent study, field experiences, and a dissertation. A minimum of 60 hours, not including the dissertation, is required to complete the degree. Students who have completed a sixth-year program or have identified only post-master's degree competencies may petition for a waiver of up to 12 semester hours of the required 60 hours of work.

### Master's Degree Programs

The department offers Master's Degrees in the areas of Counselor Education, Reading, and Special Education. Each of these areas, their specific programs and requirements, are presented in the following section.

### Counselor Education

A student may work toward a Master of Arts, a Master of Science, or a Master of Science in Education degree by fulfilling the requirements specified in this catalog. One

may elect to do 32 hours of course work, including a thesis, elect to do 32 hours of course work and take a comprehensive examination, or elect to do 39 hours of course work not including a thesis or comprehensive examination. Students in Counselor Education select one of the following sequences:

A. *School Counseling.* Prepares counselors for public and private elementary and secondary schools. Persons completing this program ordinarily will be eligible for the Type 73 School Service Personnel Certificate for school guidance counselors. To be eligible for a Type 73 counselor certificate a student must have a valid teaching certificate. Requirements:

1. Foundations Course (12 Semester Hours) SED 360, SED 362, EAF 463, PSY 420
2. Pre-Practicum Core (15 Semester Hours) EAF 410, SED 460, SED 464, SED 465, SED 467 or equivalent.
3. Specialization/Elective Core (6 Semester Hours) Selected with assistance of advisor
4. Practicum Core (6-9 Semester Hours) SED 461, SED 462 (School Counseling Section).

B. *Counseling in Higher Education.* Prepares counselors for junior and senior colleges, and other counseling oriented positions in higher education. Requirements:

1. Foundation Core (12 Semester Hours) SED 362, SED 463, SED 466, EAF 410
2. Pre-Practicum Core (15 Semester Hours) SED 463 (Advanced Section), SED 464, SED 465 or SED 561, SED 468, and SED 460 or equivalent
3. Specialization/Elective Core (6 Semester Hours) Strongly recommended: PSY 420
4. Practicum Core (6 Semester Hours) SED 462 (Higher Education Section)

C. *Human Services Education.* Prepares student development practitioners for two- and four-year colleges, human development specialists for inservice training positions in education, business and human services agencies, and staff members for consultation and educational components of community social service agencies. Requirements:

1. Foundations Core (18 Semester Hours) SED 362, SED 463 SED 463, (Advanced Section,) SED 469, EAF 410, and SOC 465.
2. Pre-Practicum Core (15 Semester Hours) SED 468, SED 561, SED 562, SED 563, EAF 487.
3. Specialization/Elective Core (9 Semester Hours Minimum). Recommend multidisciplinary courses.
4. Practicum Core (6 Semester Hours Minimum) SED 462 (Human Services Section).

A master's degree student in Counselor Education

passes through a three-stage sequential process. The requirements into each stage are summarized as follows:

A. *Admissions*

1. 12 hours of undergraduate work in the Behavioral Sciences-- Psychology, Sociology, Anthropology, etc. All students applying to the School Counseling sequence are expected to have taken courses which include: (a) Psychological Measurement and/or Measurement and Evaluation or equivalent, (b) Developmental Psychology and/or Human Growth and Development, (c) Learning Theory and/or Educational Psychology.

2. 3.0 G.P.A. for the last 60 undergraduate hours. Students with a G.P.A. between 2.6 and 3.0 for the last 60 undergraduate hours may be admitted on a conditional basis.

B. *Admissions to Candidacy/Practicum*

1. 3.25 G.P.A. for all graduate work
2. Minimum of 21 graduate hours in Counselor Education
3. Filing of Plan of Study
4. Approval by Student Status Committee.

C. *Graduation*

1. B or better Practicum (SED 462)
2. 3.25 G.P.A. for all graduate work
3. Completion of at least one advanced topics course in Counselor Education. SED 461 meets this requirement for students in School Counseling sequence.

## Reading Education

Requirements for a Master of Science in Education with concentration in reading will vary somewhat depending upon the area or level of reading in which the graduate student plans to concentrate. However, all students are expected to have a common base of knowledge about reading processes, diagnosing reading abilities, and providing desirable programs in reading.

Students who elect an M.S. in Education with a concentration in reading will be required to have a minimum of one undergraduate course in reading.

All students in the reading program will be expected to complete successfully at least one reading practicum. Assignment of academic advisement of students will depend on their selection from among the following area:

- A. *Remedial Reading.* Major concentration upon diagnosis and the educational accommodation of special cases of severe reading disability.
- B. *Elementary School Reading.* Concentration upon the roles of teachers and reading consultants in developmental reading programs for elementary education.
- C. *General, Secondary, and Higher Education Reading.* Developmental programs and general func-

tions of reading specialists or consultants and the kinds of services provided in general, secondary, or higher education.

The following courses are required in each of the above areas:

1. EAF 410, C&I 476, and one course in history, philosophy, or social foundations of education.
2. 18 semester hours of study from among the following reading courses as advised: SED 301, 302, 303, 304, 305, 306, 308, 401, 402, 403, 406, 407, 408, 409, 419, 420, and 501.

Other courses, workshops, etc., in reading may be used to fulfill the requirements in **3 below**, but they **cannot be used to substitute for the courses listed above.**

3. Additional courses to complete the program requirements as advised.

4. Additional courses are selected following recommendations of the advisor with the approval of the Chairperson, Department of Specialized Educational Development.

### K-12 Reading Certificate:

1. Course work leading to the Special K-12 reading certificate is offered by the department.
2. The major purpose of the program is to provide candidates with the appropriate training for teaching developmental and remedial reading from Kindergarten through twelfth grade or beyond.
3. The program leading to the special K-12 reading certificate requires the completion of 32-33 semester hours in reading and related educational areas.

## Special Education

Graduate work for the master's degree is offered in the following sequences: Behaviorally and/or Learning Disordered, Deaf and Hard of Hearing, Mental Retardation-Educable, Mental Retardation-Trainable, Physically Handicapped, Visually Handicapped, and Severely and Profoundly Handicapped.

The department also offers courses which permit graduate students to concentrate on the secondary level in their special education preparation. Through the Department of Curriculum and Instruction graduate students may take course work in early Childhood Education to complement their special education preparation.

A program in educational administration and special education is offered in cooperation with the Department of Educational Administration and Foundations.

A program in information science and special education is offered in cooperation with the Department of Information Sciences. Consult the Chairperson of either department for details of these two programs.

Students who are working toward a master's or doctor's degree or taking course work leading to entitlement or endorsement should file an Intent to File for Certification form in the Office of Clinical Experiences and Certification Processes. All students who plan to receive certification for the State of Illinois via an approved ISU program must file official forms and follow specific procedures. Certification is not given automatically at the completion of specified course work or degree work.



University requirements for master's degrees are given elsewhere in this catalog. Departmental requirements for the master's degree are as follows:

1. At least 15 semester hours in Education and/or Psychology are required, including EAF 410, SED 440, and PSY 301 or 302.
2. At least 15 hours in courses numbered at the 400 level.
3. Additional course work selected to meet Illinois certification requirements in at least one of the above areas of concentration, if not already certified.

## Courses

### 301 LABORATORY READING METHODS

3 sem. hrs.

Techniques of diagnosis and instruction for special cases of severe reading disability. Prerequisite: SED 220 or an equivalent course. Three double periods per week. Inc Clin Exp on or off campus. Students provide own transportation.

### 302 ADVANCED READING METHODS

3 sem. hrs.

Practical problems utilizing group evaluation. Techniques in selecting reading materials in elementary classrooms. Integrates reading with skill development activities. Prerequisites: SED 220 or C&I 251 or cons. inst. Formerly C&I 307

### 303 PRACTICUM IN UNIVERSITY READING STUDY CENTER (formerly C&I 303)

3 sem hrs

Observation and participation to provide skills necessary for working in a reading-study center in high school. Prerequisites: SED 218 or reading portion of C&I 200 or SED 302 and cons inst. Six hours each week. Includes Clinical Experience.

### 304 READING DEVELOPMENT; EARLY ELEMENTARY

3 sem. hrs.

Extension and integration of the concepts and skills utilized in teaching reading and other subjects in the early elementary years. Prerequisite: SED 220 or C&I 251 or SED 305.

### 305 PRE-FIRST GRADE READINESS FOR READING

3 sem. hrs.

This course enables the student to present pre-reading and beginning reading skills to pre-first grade children. A practicum experience is provided. Prerequisite: C&I 251 or SED 220, or an equivalent course. Includes Clinical Experience.

### 306 READING DEVELOPMENT FOR EARLY ADOLESCENCE

3 sem. hrs.

Provides the junior high/middle school person with knowledge, skills, and abilities to work with the developmental reading growth of early adolescence. Includes Clinical Experience.

### 308 TEACHING ADULTS TO READ

3 sem. hrs.

Nature and needs of the population of reading programs for adults. Goals, techniques, content, and materials including practicum. Prerequisite: One course in teaching of reading. Includes Clinical Experience.

### 312 SELECTION OF INSTRUCTIONAL MATERIALS FOR THE HANDICAPPED LEARNER

3 sem. hrs.

Personalization or adaptation of instructional materials, translation of instruction from one medium to another, and choice of media which occurs at the level of the individual special educator and the handicapped pupil. Prerequisite: INF 240.

### 313 SPECIAL ADAPTATIONS FOR INDIVIDUALS WITH VISUAL DISABILITIES

1 sem. hr.

Not for credit to students specializing in Visually Handicapped. The study of implications of visual disabilities for the individual functioning in educational, travel, vocational, and other settings. Includes adaptations which can be provided for persons with visual disabilities.

Observation required. Incl. Clin. Exp.

### 314 SPECIAL ADAPTATIONS FOR INDIVIDUALS WITH PHYSICAL DISABILITIES

1 sem. hr.

Not for credit to students specializing in Physically Handicapped. The study of implications of physical disabilities for the individual functioning in educational, travel, vocational and other settings. Includes adaptations which can be provided for persons with physical disabilities.

Observation required. Incl. Clin. Exp.

### 315 SPECIAL ADAPTATIONS FOR INDIVIDUALS WITH HEARING DISABILITIES

1 sem. hr.

Not for credit to students specializing in Hearing Disabilities. The study of implications of hearing disabilities for the individual functioning in educational, travel, vocational and other settings. Includes adaptations which can be provided for persons with hearing disabilities.

Observation required. Incl. Clin. Exp.

### 321 EDUCATIONAL ASSESSMENT OF THE LEARNING AND BEHAVIORALLY DISORDERED

5 sem. hrs.

Generation, analysis, synthesis and application of the data in planning educational programs for the learning/behaviorally disordered. Maj only or con. dept. chrpn. Includes clinical experiences.

### 322 EDUCATION OF THE LEARNING AND BEHAVIORALLY DISORDERED

5 sem. hrs.

Development and delivery of educational programs for individuals identified as learning or behaviorally disordered. Prerequisite: SED 321 or conc req req. Maj only or con. dept. chrpn. Inc. Clin. Exp. Not for credit if had SED 347 or 358.

### 330 THE LANGUAGE OF SIGNS AND FINGERSPELLING

2 sem. hrs.

Beginning course in developing expressive and receptive sign language and fingerspelling. Laboratory required.

### 331 AMERICAN SIGN LANGUAGE

2 sem. hrs.

Advanced course in American Sign Language including conversational Sign and Sign linguistics.

**343 MENTAL RETARDATION****3 sem. hrs.**

Medical, psychological, and sociological characteristics and behavior of the mentally retarded. Methods of classification, causes, and rehabilitative aspects. Prerequisite: SED 145 or con. dept. chrpn. Formerly PSY 348.

**344 CURRICULUM FOR THE TRAINABLE MENTALLY HANDICAPPED****3 sem. hrs.**

Analysis of curricular approaches, areas and levels as related to characteristics and needs of trainable mentally handicapped (TMH) individuals. Evaluation and design of psycho-social, applied and academic curriculum areas for TMH at levels K-12. Prerequisite: SED 343.

**345 EDUCATION OF THE TRAINABLE MENTALLY HANDICAPPED****4 sem. hrs.**

Classroom organization strategies, teaching methods and materials for curriculum content areas across the psycho-social, applied and cognitive domains for TMH individuals from birth through adulthood. Prerequisites: Successful completion or concurrent enrollment in SED 343 and 344, or con of dept chrp. Includes off-campus clinical experiences. Students responsible for transportation to clinical sites.

**346 EDUCATION FOR THE MENTALLY RETARDED****4 sem. hrs.**

Objectives, curriculum and methods for educable mentally retarded. Observation and participation. Prerequisite: SED 343 or con. dept. chrpn.

**348 EDUCATION OF GIFTED CHILDREN****2 sem. hrs.**

Survey of characteristics and needs of gifted children and adolescents. Appropriate programs and teaching strategies. Review of basic research. Includes clinical experiences.

**349 EDUCATION OF PHYSICALLY HANDICAPPED****2 sem. hrs.**

Educational programs for crippled and other health impaired children. Prerequisite: BSC 381 or con. dept. chrpn. Observation and participation. Fieldwork in physically handicapped.

**350 INTRODUCTION TO VISUAL HANDICAPS****3 sem. hrs.**

Nature and needs of the visually handicapped, infants to adults. Includes clinical experiences.

**351 EDUCATION OF THE VISUALLY HANDICAPPED****3 sem. hrs.**

Prerequisites: SED 350 and 356, or cons. dept. chrpn.

**352 BRAILLE READING AND WRITING I****3 sem. hrs.**

Prerequisite: BEA 112 or proficiency in typing, or consent of dept chrpsn.

**353 EDUCATION OF THE DEAF****2 sem. hrs.**

Psychological, social, historical, and educational problems relating to education of the hearing impaired.

**354 THE TEACHING OF SPEECH TO THE DEAF****4 sem. hrs.**

Principles and techniques of developing and teaching

speech to hearing-impaired students at all school levels. Prerequisites: SED 355, PAS 311, or cons of dept chrpsn.

**355 THE TEACHING OF LANGUAGE TO THE DEAF****4 sem. hrs.**

Principles and techniques of teaching language to hearing-impaired students at all school levels. Prerequisite: SED 330, 353 or cons dept chrpsn. Includes Clinical experiences.

**356 BRAILLE READING AND WRITING II****3 sem. hrs.**

Designed to develop mastery of the braille mathematical code and materials format code. Prerequisite: SED 352.

**357 ORIENTATION AND MOBILITY FOR CLASSROOM TEACHERS (formerly SED 360)****2 sem. hrs.**

Practicum in basic daily living skills and rudimentary mobility techniques.

**359 THE TEACHING OF READING AND SCHOOL SUBJECTS TO THE DEAF****4 sem. hrs.**

Teaching reading and other core subjects to hearing-impaired students at all school levels. Prerequisite: SED 355. Includes clinical experiences.

**360 FOUNDATIONS OF SCHOOL COUNSELING (formerly C&I 360)****3 sem. hrs.**

A broad perspective of school counseling, surveying traditional, current, and pending practices and roles of counselors. Study of theories and models that support counseling. Students experience the work of the counselor through simulations, and become familiar with professional issues, organizations, and literature.

**361 STUDENT PERSONNEL WORK IN HIGHER EDUCATION****3 sem. hrs.**

Fundamental concepts, organization and administration of higher education student personnel work. The student personnel worker as a facilitator in the changing educational scene.

**362 BASIC SKILLS IN COUNSELOR EDUCATION****3 sem. hrs.**

Introduction to and laboratory practice in the basic procedures and skills of counseling. Lecture and Laboratory.

**363 TEACHER'S ROLE IN CHILD, FAMILY, AND COMMUNITY RELATIONS (formerly C&I 347)****3 sem. hrs.**

Theories and techniques of child management, consultation procedures, parent and family education, and parent involvement within the school and community agencies and institutions.

**370 INSTRUCTIONAL PROGRAMMING FOR THE HANDICAPPED****3 sem. hrs.**

Analysis of procedures for determining individual behavioral needs, designing instructional sequences, implementing behavior change programs, and evaluating effects of programs for disabled individuals.

**371 EDUCATION OF SEVERELY AND PROFOUNDLY HANDICAPPED INDIVIDUALS****3 sem. hrs.**

Implementation of educational programs for severely



and profoundly handicapped individuals. Observation and participation required.

**372 EDUCATION DIAGNOSIS OF SEVERELY AND PROFOUNDLY HANDICAPPED**

**3 sem. hrs.**

Application of diagnostic skills in assessing severely and profoundly handicapped individuals, designing individualized programs, and evaluating client progress and program effectiveness.

**373 SPECIAL EDUCATIONAL INTERVENTION WITH PARENTS OF HANDICAPPED INDIVIDUALS**

**3 sem. hrs.**

Theoretical and practical aspects of providing special educational intervention to parents of handicapped learners. Planning and implementing special educational intervention programs based on understanding of the characteristics and needs of both handicapped learners and their parents. Program participation and evaluation. Prerequisites: Child Growth and Development, a teaching methods course, or consent of department chairperson. Includes off-campus clinical experiences. Students responsible for transportation to clinical sites.

**380 EMPLOYMENT ANALYSIS FOR THE EXCEPTIONAL**

**3 sem. hrs.**

Also offered as IT 307. Formerly SED 307. Materials charge.

**385 PHYSICAL DEFECTS-SURVEY AND REHABILITATION**

**3 sem. hrs.**

Identification and treatment of physical defects of handicapped children; special services, equipment, and procedures for school programs. Prerequisite: BSC 381. Also offered as HPR 385. Lecture and laboratory. Incl. Clin. Exp.

**400 INDEPENDENT STUDY**

**1-4 sem. hrs.**

**401 ANALYSIS AND CORRECTION OF READING DISABILITY**

**3 sem. hrs.**

Differentiated reading programs based on test findings. Opportunities provided for administering informal and standardized instruments to determine types of reading disability. Prerequisites: SED 220 and SED 301.

**402 RECENT RESEARCH IN READING**

**3 sem. hrs.**

Analysis of recent research in reading at the elementary, secondary, and college levels together with its implications in the areas of modified practices in the teaching of reading, materials of instruction, and teacher preparation.

**403 PSYCHOLOGY OF TEACHING READING**

**3 sem. hrs.**

The study, analysis and investigation of linguistic and psychological aspects of the act of reading.

**406 ADVANCED SECONDARY SCHOOL READING**

**3 sem. hrs.**

The role of the reading specialist in the secondary school; special provisions for meeting the reading needs of high school students; techniques and materials suitable for use in the secondary school. Prerequisite: One course in reading.

**407 TEACHING READING IN THE CONTENT AREAS**

**3 sem. hrs.**

Instructional methods and materials designed to integrate reading instruction with subject-matter instruction relative to grades 4 through 12. Includes investigation of informal classroom diagnosis, vocabulary development, levels of comprehension, patterns of organization, concept development, grouping procedures, inservice programs, consultant techniques, etc. Prerequisite: One course in reading and permission of the instructor.

**408 DIAGNOSIS AND CORRECTION OF READING DISABILITIES**

**3 sem. hrs.**

Study in the causes and remediation of reading disabilities. Research findings will be utilized for suggested diagnosis and correction of various types of reading problems.

**409 PRACTICUM IN READING FOR CLASSROOM TEACHERS**

**3 sem. hrs.**

Designed for classroom teachers to help pupils in regular classrooms to overcome their reading problems. Through observation and participation in classrooms, students will become acquainted with ways of diagnosing and correcting reading difficulties. Individual and group conferences with the instructor will be scheduled. Prerequisite SED 408. Includes Clinical Experience.

**410 EDUCATIONAL ASSESSMENT AND PLANNING FOR EXCEPTIONAL CHILDREN AND YOUTH**

**3 sem. hrs.**

Advanced study to gain and develop skills in assessing educationally relevant behaviors of exceptional pupils and developing specific educational plans based on assessed strengths and weaknesses.

**411 COMPREHENSIVE EDUCATIONAL EVALUATION OF EXCEPTIONAL CHILDREN**

**3 sem. hrs.**

Practical experience in the development and application of clinical skills in the selection, administration, and interpretation of formal diagnostic tools and techniques which can be utilized in evaluating school learning-and-behavior problems. Prerequisites: Graduate standing, PSY 334 or the equivalent, consent of the department chairperson or instructor, concurrent enrollment in SED 412.

**412 CLINICAL PRACTICUM IN SPECIAL EDUCATION EVALUATION**

**3 sem. hrs.**

Application of theory and technical skills in planning and implementing individual diagnostic programs, interpreting and reporting diagnostic data, and formulating educational recommendations for exceptional individuals. Prerequisites: Graduate standing, PSY 334 or the equivalent, consent of the department chairperson or instructor, concurrent enrollment is SED 411 or consent of department chairperson or instructor.

**419 SEMINAR IN READING**

**3 sem. hrs.**

The content of the course will depend upon the needs and backgrounds of the students. Group and individual research of current practices, trends, and issues in reading will be employed. Prerequisite: 9 semester hours of graduate work in reading or the consent of the instructor.

**430 WORKSHOP IN EDUCATION**

2-6 sem. hrs.  
(See C&I 430.)

**431 INDIVIDUALIZED FIELD WORK IN EDUCATION**

2-3 sem. hrs.  
(See C&I 431).

**440 PROBLEMS IN SPECIAL EDUCATION**

2 sem. hrs.

Advanced study to explore topical problems in special education. Various areas of exceptionality studies. Emphasis on examination of professional research relating to education of the exceptional.

**445 CURRICULUM DEVELOPMENT FOR THE MENTALLY RETARDED**

3 sem. hrs.

Designed to aid students in the development of curriculum and methods suited to the particular problems of the mentally retarded.

**446 SEMINAR IN SPECIAL EDUCATION AND REHABILITATION**

2 sem. hrs.

Exploration of various problems in the areas of special education and rehabilitation. Opportunities to develop program models or research designs for handicapped.

**448 INSTRUCTIONAL PROCEDURES FOR EMOTIONALLY DISTURBED PUPILS**

3 sem. hrs.

Organizing and administering laboratory procedures for maladjusted and educationally retarded pupils. Research pertaining to personality factors as related to school success. Prerequisites or concurrent registration: SED 220 and SED 301.

**450 SURVEY OF SPECIAL EDUCATION**

3 sem. hrs.

A course designed as an entry level course for Special Education Graduate Students and/or other educators with no previous special education background. Knowledge and skills of the physiological, psychological, sociological and educational impact of handicapping conditions on all exceptional children and youth will be emphasized. Prerequisites: None.

**451 DESIGN, ADAPTATION, EVALUATION OF INSTRUCTIONAL MATERIALS FOR HANDICAPPED LEARNERS**

3 sem. hrs.

Advanced applications of learning and communication theories as they relate to problems in the design, adaptation, and evaluation of instructional media and materials for handicapped and gifted learners. Students will be required to adapt existing, and design and produce original instructional materials intended for use with handicapped learners, all of which will be field tested and evaluated. Prerequisites: None.

**452 PARENT AND COMMUNITY INVOLVEMENT IN SPECIAL EDUCATION**

3 sem. hrs.

Theory and practice in understanding parents of handicapped individuals and their communities; in designing, implementing and facilitating programs which en-

hance involvement in special education, and evaluating the effectiveness of such programs.

**453 ANCILLARY SERVICE SYSTEMS IN SPECIAL EDUCATION**

2 sem. hrs.

A graduate level course to provide special education leadership personnel with the skills and knowledge needed to identify and use local, state, and national sources of specialized services required by handicapped persons or their families. The course includes study and application of methods and procedures needed to develop printed indexes, organized on appropriate geographical bases, of such services; and, study and application of referral procedures for their appropriate professional use. Prerequisites: A course in Survey of Special Educ.; or, permission of instructor.

**460 APPRAISAL METHODOLOGIES FOR COUNSELORS**

3 sem. hrs.

The administration and interpretation of appraisal techniques appropriate to the student's level of interest: elementary, secondary, or higher education. Special emphasis on student self-appraisal.

**461 ORGANIZATION OF PUPIL SERVICES PROGRAMS**

3 sem. hrs.

The activation, organization, administration, and utilization of pupil services within the schools. Selection of personnel, in-service education of the staff, evaluation of the program, and steps in the introduction of a comprehensive pupil services program are considered.

**462 PRACTICUM IN COUNSELOR EDUCATION**

3-9 sem. hrs.

Supervised experience in individual and/or small-group counseling or human services education. May be repeated for credit for a total of nine semester hours. Prerequisite: 21 semester hours in graduate work in Counselor Education degree program.

**463 THEORY AND PRACTICE IN GROUP COUNSELING**

3 sem. hrs.

Participation in a group with associated study of interpersonal relationships through tapes, films, observation, and related reading. Also includes study of relevant theories of group counseling and interaction. May be repeated for credit for a total of six semester hours.

**464 THEORIES AND TECHNIQUES OF COUNSELING**

3 sem. hrs.

Goals, methods, and procedures as seen from a number of differing theoretical positions. Emphasis on interpersonal dimensions of counseling interviews. Case material illustrating applications in a variety of counseling situations--schools, community, college and university, focusing on problems of personal, social, educational, and vocational adjustment.

**465 VOCATIONAL COUNSELING**

3 sem. hrs.

Acquiring and using occupational and educational information. Consideration of job requirements and training opportunities; developing occupational units; nature of vocational development.



**466 COUNSELING IN HIGHER EDUCATION****3 sem. hrs.**

Problems and characteristics of counseling in community colleges, and other institutions of higher education.

**467 THEORY AND PRACTICE IN ELEMENTARY SCHOOL COUNSELING****3 sem. hrs.**

Counseling and guidance services for the elementary school with major emphasis on counselor role, application of counseling theory, technique, and practice to the elementary school setting. Designed for those who intend to specialize in counseling and guidance in the elementary school. Prerequisite: SED 360 or consent of instructor.

**468 ORGANIZING AND DEVELOPING LIFE SKILLS TRAINING PROGRAMS****3 sem. hrs.**

Skills areas include: Relaxation, interpersonal communication, values clarification, assertiveness and self-management. (2 hours lecture and 2 hours laboratory). Prerequisites: SED 362 or equivalent.

**469 METHODS AND MODES OF CONSULTATION IN COUNSELING AND HUMAN SERVICES EDUCATION****3 sem. hrs.**

Presentation of consultation as a preventive counseling intervention, emphasizing fundamental theoretical orientations, basic methods, and important skills.

**498 PROFESSIONAL PRACTICE****3-8 sem. hrs.**

Refer to General Courses.

**499 MASTER'S THESIS****1-6 sem. hrs.****500 INDEPENDENT STUDY****1-4 sem. hrs.****501 SEMINAR IN THEORIES AND MODELS OF THE READING PROCESS****3 sem. hrs.**

An in-depth examination and critique of contemporary theories and models of the reading process pertaining to educational pedagogy. Prerequisites: SED 403 and permission of instructor.

**503 SEMINAR IN SPECIAL EDUCATION PROGRAM DESIGN AND DEVELOPMENT****3 sem. hrs.**

Application of program design and development strategies in special education. Prerequisites: Advanced degree standing and consent of instructor.

**504 IMPLEMENTING FAMILY BASED EDUCATION****3 sem. hrs.**

An investigation into the effect that attitudes of acceptance and related behaviors project upon the motor, language and social progress of a handicapped child. Emphasis is placed upon methods and supportive services available to enable the special educator to design and implement intervention programs aimed at changing parental attitudes and behaviors and accelerating the child's progress. Prerequisites: Ancillary Service Systems in Special Education, SED 453, or permission of instructor.

**512 ADVANCED APPLIED RESEARCH IN SPECIAL EDUCATION****2 sem. hrs.**

For advanced graduate students preparing to conduct

research in school and related settings. Two research applications will be explored and simulated by students: Single-subject designs applied to special education and Grant writing and development. Prerequisites: EAF 510 (may be repeated; consent of instructor.)

**513 SEMINAR IN EVALUATION OF SPECIAL EDUCATION PROGRAMS****2 sem. hrs.**

This is a seminar course designed to prepare personnel to evaluate the effectiveness of special education programs. Areas of major concern regarding the role of the evaluator and consultant during the evaluation process will be explored and various approaches to handling these problems will be examined. Prerequisites: Admitted to doctoral program in Special Education, consent of instructor.

**540 SEMINAR IN CONTEMPORARY TOPICS IN SPECIAL EDUCATION****3 sem. hrs.**

Contemporary topical seminar in special education related to issues of identification, assessment, intervention and other problem areas. Student input included for suggested topics. Prerequisites: SED 440, Problems in Special Education; and/or consent of instructor.

**560 CONTEMPORARY TOPICS IN COUNSELOR EDUCATION****2-3 sem. hrs.**

Differing topical emphasis based upon the areas of student interest and current developments in Counselor Education. May be repeated if topic and content are different. No more than 3 hours may be counted toward the Master's degree for the thesis and comprehensive options; a maximum of 9 hours for a student taking the 39 hours master's program; advanced graduate students in Counselor Education; or equivalency and permission of chairperson.

**561 LIFE STYLE AND DECISION MAKING****3 sem. hrs.**

Presentation of life style concepts and career decision making theory with emphasis on personal application and educational intervention skills.

**562 ENVIRONMENTAL ASSESSMENT AND CHANGE STRATEGIES IN HUMAN SERVICES EDUCATION****3 sem. hrs.**

The course covers methods of assessing environmental effects, their relationship to human behavior, and improvement of human system transactions.

**563 PROGRAM DEVELOPMENT AND EVALUATION IN HUMAN SERVICES EDUCATION****3 sem. hrs.**

Presents concepts and methods contributing to the creation of structured developmental-preventive interventions and to the assessment of their effectiveness.

**593 RESIDENT SEMINAR****1 sem. hr.**

For advanced resident graduate students in Specialized Educational Development. May be repeated. Prerequisite: Advanced graduate standing.

**594 RESEARCH SEMINAR IN EDUCATION****3 sem. hrs.**

Designed for dissertation proposal development for doctoral (and specialist) students. Emphasis on the design of a proposal ready for committee consideration. Study of the various methodological and design components. Successful completion of the work is the approved proposal.

**599 DISSERTATION RESEARCH****Variable credit**

Research relating to research requirements for Doctor of Education degrees. Approval of the chairperson of the department of the program in which the student is enrolled is required.



# COLLEGE OF FINE ARTS

The primary function of the College of Fine Arts and its Departments of Art, Music, and Theatre is to provide professional training in the arts for students preparing to be elementary, secondary, and college teachers and for students desiring professional careers in select areas of the arts. Various areas of concentration in undergraduate and graduate studies, including MFA programs and an Ed. D. program in Art, provide flexible curricula for a variety of student talents and research interests. The College also provides a cultural environment through the performing and visual arts for the campus, community, and region.

## ART

**Chairperson:** Fred V. Mills. Office: Center for the Visual Arts Room 119.

**Director of Doctoral Studies:** Max R. Rennels.

**Director of Masters Studies:** Jack Hobbs.

**Teaching Staff:** S. Amster, F. Anderson, G. W. Bock, G. Barford, H. Boyd, J. Brower, W. Burk, J. Butler, R. Carswell, W. Colvin, N. Ernest, R. Finch, R. Freyberger, R. George, D. Gold, H. Gregor, W. D. Hartley, R. Hentz, J. Hobbs, K. Holder, R. Jackson, K. Knoblock, T. Malone, F. Mills, B. Moore, J. Meyers, M. Newby, E. Niemi, M. Rennels, R. Salome, E. R. Steff, C. L. Steinburg, D. Tell, N. Townner, A. Walter.

The Department offers work leading to the following degrees: M.A., M.S., M.F.A., and Ed.D. General University requirements for degrees are described elsewhere in this catalog.

The Department reserves the right to keep examples of original work produced by graduate students for its permanent collection of student art work.

## MASTER'S DEGREE PROGRAMS

The master's degree in Art requires a minimum of 32 hours including a master's thesis or a comprehensive examination. A candidate for the degree must spend at least one full term in residence in order to qualify for the degree. A full term may be interpreted as one semester with a class load of 9-15 hours, or a summer session with a class load of 6-9 hours.

To enter one of three available master's programs the applicant must meet the minimum requirements of the Graduate School and pass a portfolio review in the Department. (Portfolios are to be sent to the Director of Master's Programs, c/o the Art Department.)

For entering a program in Art Education, the portfolio must include a plan of studies, one example of scholarly writing, and examples of art work. (In lieu of art work the applicant may have a recommendation(s) sent from his/her employer(s) to the Department.)

For entering a program in Studio, the portfolio must include a plan of studies, examples of art work (slides are preferred), and one example of scholarly writing.

For entering a program in Art History, the portfolio must include a plan of studies and at least 3 examples of scholarly writing.

## Sequence in Art Education

401 Foundations of Art Education .....3 hours

402 Issues in Art Education .....3 hours

403 Curriculum in Art Education .....3 hours

Electives in courses and/or Special Projects in Art Education .....6 hours

Total 15 hrs.

The rest may be chosen from a wide range of fields which are relevant to art or education and which reflect the student's interests. Some examples are: an area of Studio Art, Curriculum, Psychology, Special Education, Community Art Programs, College Level Art, and Humanities. A comprehensive examination or thesis is required of each student at the end of the program.

## Concentration in Art Studio

Each student is expected to do a concentration in painting, sculpture, printmaking, ceramics, weaving, jewelry, design, photography, drawing, and glassblowing. Although a program is developed in consultation with an advisor with the student's interests in mind, a typical program includes at least 15 hours of 444 Problems in Studio Work (in one of the above studio areas), 3 hours of 451 Special Projects in Art, and 6 hours of Art History. A graduate show (as a part of the comprehensive examination) is required of each student at the end of the program.

## Concentration in Art History

Only the M.A. is offered in Art History. Students who have not satisfied the language requirement before entering the program must do so as early as possible while pursuing the program.

A program in Art History consists of at least 18 hours of course work in the Art History area (of these at least 12 must be at the 400 level), 6 hours in related fields outside the Department (history, literature, anthropology, etc.), and 4-6 hours of 499 Thesis.

## Master of Fine Arts

The Master of Fine Arts in Art is a 60-hour program that emphasizes both the theory and practice in the production, history, and teaching of the visual arts. Candidates

will be expected to demonstrate artistic proficiency in at least one of the following disciplines: painting, sculpture, printmaking, ceramics, weaving, jewelry, design, photography, drawing, or glassblowing. Candidates will also be expected to demonstrate an ability to communicate ideas in a written and oral manner.

Since a primary objective is to prepare teachers for higher education, students will also be expected to participate in an experience of internship or apprenticeship. This may take the form of a guided teaching experience or work in a professional area related to the student's area of interest. (Conceivably this might involve local industry, school, etc.) The exact nature of this experience will be worked out through counseling between the major adviser and the student and will be tailored to best suit the needed experience for each student. This project will be subject to approval of the student's graduate committee.

It should be clearly understood that the accumulation of 60 semester credit hours is not the primary criterion in evaluating final achievement. Instead, it is the exhibition and demonstration of the student's competency and his/her intellectual maturity and that these expectations be deemed proficient in his/her area of the arts. In view of this, a major requirement will be a comprehensive showing of the student's visual work and a written and/or oral examination of the intellectual implications of his/her chosen field.

A typical program for the Master of Fine Arts degree will include at least 60 semester hours of graduate work beyond the bachelor's degree. These 60 hours may be programmed as follows:

- a. At least 36 semester hours must be taken in the Art Department, of these at least 24 must be at the 400 level.
- b. At least 24 semester hours must be in the student's major studio area, of these at least 18 must be at the 400 level.
- c. At least 12 semester hours may be taken in art history, or nine hours may be taken in art history with three hours in related areas such as aesthetics, philosophy, or anthropology.
- d. At least three semester hours in an internship or apprenticeship program. The exact nature of this program will be determined by the student and his/her major adviser and designed to best suit the needs of the individual student.
- e. At least three semester hours of an elective outside the Art Department.
- f. Six hours of Thesis 499. This will involve a comprehensive exhibition of studio work, an exhibition-related written project, and a comprehensive oral examination.

## Doctor of Education Degree in Art

The degree requirements for the doctoral degree in the theory and practice of teaching Art have been structured for maximum flexibility. There are few specific course or hour requirements other than those necessary for establishing residency. The individual student, with the approval

of the Director of Doctoral Studies and later with his/her committee, may design a plan of study based upon both need and interest. The major studies are completed in the Art Department with a minor in any department which offers a graduate program. The student's specific course of study should facilitate transition through the program with professional competence and employability being the guide. The sequential procedure leading to the completion of the degree requirements is as follows:

- a. Admission to advanced graduate standing in the Department of Art.
- b. A tentative advanced graduate study program planned in consultation with the Director of Doctoral Studies in Art.
- c. A degree program interview (for final approval of degree study program).
- d. Admission to doctoral candidacy.
  1. Submission of a final plan of study.
  2. Preliminary comprehensive examinations following completion of approximately two-thirds of the planned course requirements.
  3. Approval of the dissertation topic by the student's committee and the Graduate School.
- e. Completion of terminal degree requirements within eight years after beginning course work.
- f. Residency requirements for the doctoral program are two (2) consecutive semesters as a full-time student. This may also be one regular semester with a summer session.

## Courses

### 307 ART FOR ATYPICAL INDIVIDUALS

3 sem. hrs.

Various approaches to directing programs and to teaching art to atypical individuals in special school programs and community institutions. Open to upper division and graduate art majors or cons of inst.

### 309 PROFESSIONAL ART EDUCATION SEQUENCE

8 sem hrs (4 each semester)

Sequential semesters interrelate art learning theory, teaching methodology, and pre-student teaching clinical experiences in Art Education K-12. Not for credit if had Art 203 or 204. For Art Education maj, others by cons dept chrprn. Two consecutive semester sequence. Prerequisites: C&I 100 or 215 or conc reg.

### 321 PHILOSOPHY OF ART

3 sem. hrs.

### 324 JEWELRY III

2-6 sem. hrs.

Advanced problems in metal design. Further exploration of surface treatments, fabricating processes and casting processes. Problems devised in keeping with individual concerns. Prerequisite: ART 225. May be repeated. Materials charge.

### 326 VISUAL COMMUNICATIONS III

3 sem. hrs.

Transition course using the skills, techniques, and concepts learned earlier, applying them to problems of contemporary expression. Preparation for study on inde-



pendent basis. Prerequisites: ART 226, 227. Materials charge.

### **328 CERAMICS III**

**2-6 sem. hrs.**

Experiences in wheel and handbuilding processes with an emphasis on individual exploration of ideas through ceramic media. Prerequisite: ART 229. May be repeated. Materials charge. Variable credit. Amount of performance per credit to be determined by contract with instructor.

### **331 ADVANCED DRAWING**

**1-3 sem. hrs.**

Transition course using the skills, techniques, and concepts learned earlier, applying them to problems of contemporary expression. Preparation for study on independent basis. Prerequisite: Art 214. May be repeated. Variable credit. Amount of performance per credit to be determined by contract with instructor.

### **332 SCULPTURE III**

**2-6 sem. hrs.**

Transition course. Individualized problems exploring techniques and concepts encountered earlier and their application to problems of contemporary expression. Preparation for study on an independent basis. Prerequisite: ART 233. May be repeated. Materials charge. Variable credit. Amount of performance per credit to be determined by contract with instructor.

### **335 PHOTOGRAPHY AS AN ART FORM III**

**2-6 sem. hrs.**

Advanced problems in photography as an art form. Emphasis upon individual exploration of the medium. Prerequisite: ART 236 or cons of inst. May be repeated. Materials charge. Variable credit. Amount of performance per credit to be determined by contract with instructor.

### **340 WEAVING III**

**2-6 sem. hrs.**

Advanced studio work based on the technical and aesthetic concepts presented in Weaving I & II. Emphasis upon individualized projects designed in consultation with instructor. Prerequisite: ART 241. May be repeated. Materials charge. Variable credit. Amount of performance per credit to be determined by contract with instructor.

### **345 PRINTMAKING II**

**2-6 sem. hrs.**

Further study of intaglio processes with greater emphasis on intaglio as an expressive medium. Introduction to color possibilities. Prerequisite: ART 245. May be repeated. Materials charge. Variable credit. Amount of performance per credit to be determined by contract with instructor.

### **351 SPECIAL PROJECTS IN ART**

**2-6 sem. hrs.**

Special projects in art or art education chosen by the student for advanced investigation with the approval of the instructor. May not duplicate existing courses. Cons. of inst. May be repeated. Materials charge. Variable credit. Amount of performance per credit to be determined by contract with instructor.

### **355 GLASS II**

**2-6 sem. hrs.**

Further practice in glass blowing skills coupled with the introduction of techniques to alter and shape cold glass. Prerequisite: ART 255. May be repeated. Materials charge. Variable credit. Amount of performance per credit to be determined by contract with instructor.

### **361 PAINTING IV**

**2-6 sem. hrs.**

Transitional course. Student encouraged to explore personal directions in close consultation with instructor. Preparation for study on an independent basis. Prerequisite: ART 263. May be repeated. Variable credit. Amount of performance per credit to be determined by contract with instructor.

### **366 ANCIENT ART**

**3 sem. hrs.**

Art and architecture of early civilizations of Egypt, Mesopotamia, and peripheral areas from circa 8000 B.C. to circa 300 B.C.

### **367 CLASSICAL ART**

**3 sem. hrs.**

Art and architecture of the Aegean, Greek, and Roman worlds from circa 3000 B.C. to the era of Constantine.

### **369 HISTORY OF MEDIEVAL ART AND ARCHITECTURE**

**3 sem. hrs.**

Art and architecture of Europe from circa 500 A.D. to the Renaissance.

### **372 MODERN ARCHITECTURE**

**(formerly ART 483)**

**3 sem. hrs.**

Late 19th and 20th century architecture. Sullivan, Wright, and the Chicago School. European movements involving Le Corbusier, Gropius, and Mies Van de Rohe. The great engineers, Maillart, Nervi, Fuller, Candela.

### **373 PRE-COLUMBIAN ART: INDIAN ARTS OF MIDDLE AMERICA**

**3 sem. hrs.**

Art of Mexico and Yucatan before the arrival of the Spanish.

### **375 ITALIAN RENAISSANCE ART**

**3 sem. hrs.**

Painting, sculpture, and architecture of the 15th and 16th centuries in Italy.

### **376 NORTHERN RENAISSANCE ART**

**3 sem. hrs.**

Art and architecture of the Renaissance and Mannerism in Northern Europe.

### **377 HISTORY OF BAROQUE AND ROCOCO ART**

**3 sem. hrs.**

Painting, sculpture, and architecture of Europe during the 17th century.

### **378 HISTORY OF 19TH CENTURY ART AND ARCHITECTURE**

**3 sem. hrs.**

Concentration is centered on the art of Europe from the French Revolution to the 20th century.

### **379 MODERN ART**

**3 sem. hrs.**

Painting and sculpture in Europe and America from the late 19th century to 1970.

### **380 ART IN THE UNITED STATES I: COLONIAL-19TH CENTURY ROMANTICISM**

**3 sem. hrs.**

American art from the Colonial Period through 19th Century Romanticism.

**381 ART IN THE UNITED STATES II:  
AMERICAN IMPRESSIONISM-  
WORLD WAR II**

3 sem. hrs.

American art from late 19th century Impressionism to the advent of World War II.

**382 ART IN THE UNITED STATES III:  
WORLD WAR II TO THE PRESENT**

3 sem. hrs.

Complex artistic developments which occurred in the United States from World War II to the present.

**401 FOUNDATIONS OF ART  
EDUCATION**

3 sem. hrs.

A study of the historical and philosophical foundations of art education.

**402 ISSUES IN ART EDUCATION**

3 sem. hrs.

Problems in art education from the point of view of research and critical inquiry.

**403 CURRICULUM IN ART EDUCATION**

3 sem. hrs.

Examination of various art curriculum schemes K-14: philosophies, content, methods, research, and evaluation. Prerequisite: teaching experience or consent of instructor.

**411 AESTHETIC EDUCATION**

3 sem. hrs.

Exploring theories of art, aesthetics, and criticism as they relate to human learning and development.

**412 READINGS IN ART EDUCATION**

3 sem. hrs.

Familiarization with studies and writings on the nature of art and artistic behavior.

**421 PROBLEMS IN TEACHING ART IN  
HIGHER EDUCATION**

2-5 sem. hrs.

Opportunity for observation, participation, and teaching at the college level. Assignments are made with the approval of the department chairperson at least two months prior to registration.

**422 COLLEGE PROGRAMS IN ART**

2 sem. hrs.

Planning and administration of college and university art programs.

**425 PSYCHOLOGY OF ART**

3 sem. hrs.

A survey of philosophical and psychological studies of the creative individual; art appreciation and production, and the art product; consideration of social and educational implications.

**444 PROBLEMS IN STUDIO WORK**

2-6 sem. hrs.

Individual creative work in painting, sculpture, printmaking, ceramics, weaving, jewelry, design, photography, drawing, or glassblowing. Variable credit. May be repeated. Must have permission of instructor. Materials charge. Variable credit. Amount of performance per credit to be determined by contract with instructor.

**451 SPECIAL PROJECTS IN ART**

2-6 sem. hrs.

An individual project in a particular discipline-- art education, an area of studio art, or art history-- chosen and planned by the student with approval of qualified instructor. May be repeated if material covered is not duplicated.

Materials change. Variable credit. Amount of performance per credit to be determined by contract with instructor.

**471 PRIMITIVE ART**

3 sem. hrs.

Art of preliterate cultures in several parts of the world and the culture traits, complexes, and institutions associated with them.

**482 CONTEMPORARY PAINTING**

3 sem. hrs.

Backgrounds for 20th century paintings. Major movements in modern painting: Impressionism, Post-Impressionism, Dada, Surrealism, Social Consciousness, Regionalism, Abstract Expressionism, Painting Today. Paints must be bought.

**491 INTERNSHIP IN COLLEGE TEACHING  
IN ART**

3 sem. hrs.

Credit for the course is given in C&I (see C&I 491).

**497 INTRODUCTION TO RESEARCH  
METHODOLOGY**

3 sem. hrs.

Introduction and survey of bibliography, methods of scholarly research, and critical evaluation of research and writings in the field.

**498 INTERNSHIP IN ART**

See General Courses.

**499 MASTER'S THESIS**

1-6 sem. hrs.

**597 INTRODUCTION TO RESEARCH  
METHODOLOGY**

3 sem. hrs.

Introduction to bibliography, methods of scholarly research, and critical evaluation of experimental studies in the field.

**599 DOCTORAL DISSERTATION**

Variable credit

Research involving the gathering of data to form the basis for the doctoral dissertation. Approval of the chairperson of the department is required.

## MUSIC

**Chairperson:** David L. Shrader. Office: Centennial Building, East 230.

**Teaching Staff:** D. Armstrong, R. Bedford, C. Bolen, R. Cordero, A. Corra, J. Dawson, B. Eichen, L. Farlee, J. Ferrell, G. Foeller, P. Hillstrom, H. Koerselman, A. Lewis, D. Peterson, D. Poultney, J. Rehm, J. Roderick, P. Rosene, H. Rye, D. Shrader, G. Sudano, D. Williams.

The department offers work leading to the following degrees: M.A., M.M. Ed., M.M., and M.S. All students seeking an advanced degree in music must take placement examinations in the areas of theory and history and literature. Departmental requirements will be determined in part by the results of the placement tests and students should check with their graduate area adviser to develop their individual programs of study.

All graduate students in music will take 12 semester hours as a core requirement. In addition, all graduate students will select a sequence consisting of a minimum of twelve semester hours. The following sequences are available: Musicology, Theory and Composition, Performance, and Music Education.



All graduate students enrolled for six or more hours of course work or applied music must perform in an appropriate University performing organization.

Any student wishing to take graduate applied music must audition in his/her specific performance area.

Students must fulfill the following exit requirements: Students in Musicology must write a thesis; students in Theory and Composition may choose between writing a thesis or preparing an original composition; students in Performance must perform a recital; students in Music Education may choose to write a thesis, perform a recital, or take a written comprehensive examination.

## Core Requirements

The following courses are required for all master's degrees:

457 Introduction to Bibliographic Methods of Music Research .....	3 hrs.
458 Application of Historical Research Methods to Music or 459 Application of Systematic Research Methods to Music (as required by Sequence) .....	3 hrs.
396 Musical Styles of the Twentieth Century .....	3 hrs.
391-395 Choice of one course in music styles .....	3 hrs.
.....	12 hrs.

## Sequences

The Musicology, Theory and Composition, and Performance sequences are available with the M.A. degree. With the M.M. Ed. and M.S. degrees only the sequence of Music Education is available. The sequences of Theory and Composition and Performance are available with the M.M. degree. Each student must declare and receive departmental approval of a sequence before enrolling for the first semester of graduate study. Refer to index for University guidelines for M.A. and M.S. degrees.

### Musicology (Available with M.A.)

451 Selected Topics in Musicology .....	3 hrs.
Electives in Musicology to be selected from Music 391-395, 459, and additional semesters of 451 .....	9 hrs.
.....	12 hrs.

Note: Proficiency in a foreign language required. Language selected from German or French. Music 458 required from the Core requirements.

### Theory and Composition (Available with M.A. and M.M.)

305/405 Composition (as advised) .....	3 hrs.
402 Current Analytical Techniques .....	3 hrs.
464 Theory Pedagogy .....	3 hrs.
Elective in theory or composition .....	3 hrs.
.....	12 hrs.

### Performance (Available with M.A. and M.M.)

430, 431, 432, etc. (Applied Music) .....	6-10 hrs.
One of the following as advised for the performance medium: 330 Pedagogy and Literature. ....	2 hrs.
463 Choral Studies .....	3 hrs.
309 Advanced Orchestration .....	3 hrs.
Electives in performance or practicum in conducting (493) as advised .....	0-4 hrs.
.....	13 hours

Note: Students whose applied performance medium is choral conducting are advised to take 463 and 493; students in instrumental conducting, 309 and 493.

### Music Education (Available with M.M. Ed. and M.S.)

360 Introduction to Psychomusicology .....	3 hrs.
461 Seminar in Music Education .....	3 hrs.
Electives in Music Education .....	3 hrs.
Applied Music .....	4 hrs.
.....	13 hrs.

Note: Music 459 required from the core requirements.

## Courses

### 301 FORM AND ANALYSIS IN MUSIC

3 sem. hrs.

Structure of music from simple binary and ternary forms to rondo, theme and variations, and sonata forms.

### 305 COMPOSITION

3 sem. hrs.

Free composition in larger forms. May be repeated for credit.

### 307 SURVEY OF MUSIC THEORY

2 sem. hrs.

Review of analytical techniques and procedures. Emphasis on tonal music.

### 309 ADVANCED ORCHESTRATION

3 sem. hrs.

Prerequisite: MUS 209 or cons. inst.

### 330 PEDAGOGY AND LITERATURE

2 sem. hrs.

Methods of teaching, class and individual instruction; emphasis on techniques and a comparison of various teaching procedures. Survey of important literature and composers for each medium. (Brass, woodwind, percussion, voice, strings, piano, organ). May be repeated. More than one area may be taken concurrently.

### 331-338 APPLIED MUSIC

2 or 4 sem. hrs. each

Individual instruction: Advanced brass 331; Harpsichord, 332; Organ, 333; Percussion, 334; Piano, 335; Strings, 336; Voice, 337; Woodwinds, 338. May be repeated. Permission of appropriate coord. one semester in advance of registration.

### 340 INFLUENCE OF MUSIC UPON BEHAVIOR

3 sem. hrs.

A study of the various physiological effects of music. The place of functional music in music education, investigation of effective media and musical patterns. The relation of music and health in education, industry, and aesthetics. Prerequisites: MUS 190, 191, PSY 111, SAS 106.

### 341 MUSIC IN THERAPY

3 sem. hrs.

The application of music experience as an adjunctive therapy in the prescriptive treatment of the exceptional child. Prerequisites: MUS 190, 191, and 340.

**355 ELECTRONIC MUSIC****2 sem. hrs.**

An analysis of the various techniques of composition in the electronic media with practical experiences with the variety of sound-generating equipment available to the composer. Prerequisite: Music 155.

**360 INTRODUCTION TO PSYCHOMUSICOLOGY****3-4 sem. hrs.**

Laboratory required for students following Music Therapy program. An introduction to the psychology of music behavior and cognition. Topics include music perception, memory, and learning and their relation to the sensory, formal, and expressive properties of music.

**361 CURRENT TRENDS IN INSTRUMENTAL MUSIC (formerly MUS 261)****3 sem. hrs.**

Administration and supervision of instrumental music in elementary and secondary schools, methods and materials in current use, and current research related to instrumental music teaching.

**363 CHORAL TECHNIQUES****3 sem. hrs.**

Course in conducting or practical experience. Choral rehearsal techniques as used in contemporary music education and other choral performance. Materials for learning and repertoire development, emphasizing modern trends.

**364 CURRENT ISSUES IN MUSIC EDUCATION****1-3 sem. hrs.**

Current trends in all areas of Music Education. Course is open to both music majors and non-majors. May be repeated for no more than five semester hours.

**365 OPERA PRACTICUM****1 sem. hr.**

Practical experience in the staging of an opera or musical, with work ranging from set construction to leading roles. May be repeated.

**371 MUSIC FOR THE EXCEPTIONAL CHILD****3 sem. hrs.**

Trends in music education for exceptional children. Techniques and materials for a functional program of singing, playing, listening, and creative activities.

**377 MUSIC EDUCATION IN THE ELEMENTARY GRADES****3 sem. hrs.**

Purposes, content, materials, and teaching procedures in general music classes in elementary schools; supervisory practices, in-service workshops, and curriculum planning. Prerequisite: Music 262 or 277. For elementary classroom teachers, music teachers, and music supervisors.

**384 OPERA PRODUCTION****3 sem. hrs.**

Problems of presenting specific representative works from music theatre repertoire. Prerequisite: Approval Music Theatre Director. May be repeated for credit.

**391 MUSICAL STYLES OF THE RENAISSANCE PERIOD****3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 204. Formerly Musical Styles in the Renaissance.

**392 MUSICAL STYLES OF THE BAROQUE PERIOD****3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 204.

**394 MUSICAL STYLES OF THE CLASSICAL PERIOD****3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 204.

**395 MUSICAL STYLES OF THE ROMANTIC PERIOD****3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 204.

**396 MUSICAL STYLES OF THE TWENTIETH CENTURY****3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 204.

**402 CURRENT ANALYTICAL TECHNIQUES****(Formerly MUS 402: Form and Analysis in Music)****3 sem. hrs.**

Study and application of analysis systems including those of Schenker, Hindemith, information theory, set theory, and computer analysis. Prerequisite: Music 307 or acceptable proficiency on theory placement examination.

**405 COMPOSITION****3 sem. hrs.**

Advanced individual study and direction in music composition at the graduate level. May be repeated for credit. Prerequisites: Music 305 or consent of instructor.

**430-438, 440 APPLIED MUSIC****2 or 4 sem. hrs.**

Advanced individual study and direction in music performance at the graduate level. 430 APPLIED CONDUCTING, 431 APPLIED BRASS, 432 APPLIED HARPSICORD, 433 APPLIED ORGAN, 434 APPLIED PERCUSSION, 435 APPLIED PIANO, 436 APPLIED STRINGS, 437 APPLIED VOICE, 438 APPLIED WOODWINDS, 440 APPLIED PIANO ACCOMPANYING. May be repeated for credit. Permission to enroll must be obtained from appropriate coordinator in the semester prior to the semester or summer session in which the student expects to enroll. Prerequisite: By audition.

**439 ENSEMBLE****1 sem. hr.**

Study and performance of chamber music in any suitable combination of instruments or voices. Permission to enroll must be obtained from appropriate coordinator in the semester prior to the semester or summer session in which student expects to enroll. Prerequisite: by audition.

**451 SELECTED TOPICS IN MUSICOLOGY****3 sem. hrs.**

A variable content course covering the music of a composer, a country, a style, a medium, a genre. May be repeated for credit with different content; maximum of nine hours to be counted toward a degree.



**455 MUSIC IN AMERICA****3 sem. hrs.**

Indigenous and borrowed influences in American music from the time of the early settlements through periods of expansion to present day activities. A background of American musical style and culture and an understanding of present trends are developed.

**457 INTRODUCTION TO BIBLIOGRAPHIC METHODS OF MUSIC RESEARCH****(Formerly MUS 357: Music Bibliography)****3 sem. hrs.**

Introduction to bibliographic methods of music research. Critical examination of dictionaries, encyclopedias, catalogues, and other aids to research.

**458 APPLICATION OF HISTORICAL RESEARCH METHODS TO MUSIC****(Formerly MUS 453: Studies in Music)**

Bibliographic research methods in music applied to individualized historical and analytical research topics. Prerequisites: Music 457 or consent of instructor.

**459 APPLICATION OF SYSTEMATIC RESEARCH METHODS TO MUSIC****(formerly MUS 497: INTRODUCTION TO RESEARCH METHODOLOGY)****3 sem. hrs.**

Systematic research methods in music applied to individualized descriptive and experimental music research topics and critical evaluation of music research. Prerequisites: Music 457 or consent of instructor.

**461 SEMINAR IN MUSIC EDUCATION****3 sem. hrs.**

Study of aesthetic theory and educational theory in relation to current and persistent issues in music education.

**463 ADVANCED CHORAL STUDIES****3 sem. hrs.**

Selected study subjects in choral music and performance: choral literature, rehearsal techniques, organization, and composers and schools of choral music. Course may be repeated for credit with different content; maximum of nine hours to be counted toward a degree.

**464 PEDAGOGY OF THEORY****3 sem. hrs.**

Analysis of current practices in the teaching of theory, techniques of teaching theory during the regular rehearsal of performing groups, and an analysis of source material. The development of a practical course in theory as it relates to the student's own teaching situation. Prerequisite: Teaching experience or advanced standing in theory.

**468 CONDUCTING****2 sem. hrs.**

Critical examination of scores with reference to tempo, phrasing, nuance, balance, timbre, and baton techniques involved. For experienced teachers.

**481-488 PERFORMING ORGANIZATIONS****1 sem. hr.**

Participation at the graduate level in the major organizations: Concert or Varsity Band, 481; Symphony Orchestra, 482; Concert Choir, 484; Glee Club, 485; Treble Choir, 485; ISU-Civic Chorale, 488.

**491 INTERNSHIP IN COLLEGE TEACHING IN MUSIC****3 sem. hrs.**

Credit for the course is given in C&I (see C&I 491).

**493 PRACTICUM IN CONDUCTING****2 sem. hrs.**

An inservice conducting experience with community and university ensembles for graduate students involved in applied conducting. May be repeated for credit; maximum of nine hours to be counted toward a degree. Prerequisite: Applied Conducting, Music 430.

**498 PROFESSION PRACTICE IN MUSIC EDUCATION****3 sem. hrs.**

Provides graduate students with the opportunity to obtain supervised work experience in music education. Refer to General Courses.

**499 MASTER'S THESIS****1-6 sem. hrs.****THEATRE**

**Chairperson:** Calvin Lee Pritner. Office: Centennial building, West 212.

**Teaching Staff:** E. Andreasen, M. Berkson, E. Bickley, A. Butler, A. Goldfarb, J. Kirk, D. Koertge, D. LaCasse, R. Lane, C. Pritner, P. Ritch, R. Romeo, W. Ruyle, J. Scharfenberg, J. Sharpham, S. Sweeney, F. Vybiral.

The department offers work leading to the following degrees: M.A., M.S., and M.F.A.

Three graduate degrees are offered by the Theatre Department: Master of Arts, Master of Science, and Master of Fine Arts. The M.A. and M.S. degrees are general graduate degrees based on the presumption that the student should experience a broad range of courses covering most aspects of theatre.

The Master of Fine Arts is generally considered the appropriate terminal degree program for persons in the performance/production areas of theatre; the MFA offers concentration in acting, costume design, directing, playwriting, and scene design. The program is designed to prepare Theatre practitioners and teachers in the theory and practice of theatre art.

**Master of Science**

The Master of Science degree is awarded to a student who has completed a minimum of 32 hours in theatre or approved related courses, and has completed a thesis or passed a departmental comprehensive examination. The Masters degree candidate must take a sequence of courses which includes the following: 9 hours in history/theory-criticism with at least 3 in history and 3 in theory/criticism, 3 hours in acting, 3 hours in directing, 3 hours in costuming, 3 hours in design/technical theatre, 11 hours approved electives.

**Master of Arts**

The Master of Arts degree is awarded to a student who has completed the requirements outlined above. In addition, the student must have completed the following requirements: the student must have earned credit for a minimum of two years of a foreign language at the college level or must demonstrate a reading knowledge of a foreign language. This latter requirement is met by passing an examination administered by the appropriate foreign lan-

guage faculty. The student must also have earned a minimum of 32 semester hours of credit in Humanities and the Social Sciences in addition to work in foreign language. These requirements may be met by satisfactory work at either the graduate or undergraduate level.

## Master of Fine Arts

The Master of Fine Arts degree is a 60-hour minimum program that will take many students three years to complete; it emphasizes both theory and practice. Candidates for the degree are expected to demonstrate proficiency in at least one of the following: Acting, Costume Design, Directing, Playwrighting, Scene Design. Each candidate will be required to complete a three hour course that provides a supervised experience in college teaching. Candidates must demonstrate the ability to understand the conceptual basis of their art and to articulate that understanding to others.

### Admission

All regular criteria for admission to a terminal degree program in the Graduate School of the University and for graduate study in Theatre will apply with the exception of the GRE requirement.

Graduate students who hold no master's degree will ordinarily be eligible for admission to the Master of Fine Arts program after completing 12 graduate hours in theatre courses at Illinois State University or upon recommendation of the department's graduate faculty. Students with a master's degree may be admitted after eight hours. After completing the necessary hours, the student will be permitted to audition by portfolio and performance. The audition will be evaluated by the graduate faculty. A written evaluation of the candidate, prepared by the chair of the Graduate Committee and head of the area of specialty will be presented to the student and to the department chair. The student not recommended for admission will receive an evaluation of deficiencies. The evaluation committee will prescribe courses or other experiences to remove the deficiencies. A student may reapply for admission only once.

### Academic Advisers

After the student is admitted to the MFA program, the chairperson of the department, in consultation with the student and with faculty whom the chairperson deems appropriate, will select the candidate's Portfolio Committee. The committee chairperson must come from the student's major field.

### Transfer and Residency

Students who hold no earned Master's Degree usually can transfer no more than six semester hours of credit into this program. Completed MS or MA degrees will be evaluated for transfer after the student has been admitted to the MFA program. The student's MFA committee will supervise all evaluations. A minimum of 32 hours must be taken at Illinois State University.

The candidate must spend at least two consecutive full terms in residence. A full term may be interpreted as one semester, with a class load of 8-15 hours, or a summer session with a class load of 6-9 hours.

## THE MFA PORTFOLIO

### Prior to Admission

Each semester of enrollment the student who intends to apply for the MFA program should enroll in Theatre 501, MFA Portfolio for one hour credit. A portfolio adviser, who may or may not later be named portfolio committee chair, will be assigned by the chair of the Graduate Committee.

### After Admission

The portfolio is the backbone of the Master of Fine Arts program. It is designed to insure the regular and systematic evaluation of the student's progress. The portfolio is a collection of materials, including examples of the student's work where appropriate, reviews, evaluations and other artifacts which may record or characterize the student's experience in the program. The portfolio also contains the student's responses to evaluations as well as statements from the portfolio committee which provide direction for the student's future work in the program.

The student must have a portfolio evaluation for each full semester he/she is in the program. The written results of that evaluation are included in the portfolio. The portfolio provides a cumulative record of the student's progress which is carried over from semester to semester.

Finally, the portfolio, with its record of the student's activities in the program, provides the major objective basis for awarding the degree. Although the student may engage in major creative projects during his program, the portfolio stands in lieu of the traditional thesis or creative thesis project which is the culminating experience in many programs.

### QUALIFYING/COMPREHENSIVE EXAMINATION

A qualifying examination is required prior to the exit portfolio presentation. It may be comprehensive to the extent that it examines the candidate's knowledge of the discipline of theatre; it may include graduate work the student is presenting for the degree, and it may include demonstration of proficiency. The examination will be conducted by the graduate faculty of the Department. The student may request that other faculty members with whom he or she has taken course work participate in the qualifying examination.

### Exit Portfolio

When the M.F.A. student has completed, or will complete in the current semester, sixty hours of graduate courses toward the M.F.A., and after receiving permission from the Portfolio Committee, the student may schedule an exit portfolio presentation. At this time the student's work is reviewed and presented to the Portfolio Committee in the presence of the Graduate Faculty. If the work is deemed satisfactory by the Committee, the student is recommended to the Graduate School for the granting of the degree, *Master of Fine Arts in (specialty)*. To be eligible for the exit portfolio presentation, the student must (1) present a grade average of B or above with not more than six (6) hours of C. The student must (2) have completed (or will complete in the current semester) two semesters of full-time resident study, (3) a plan of study must be on file with the Graduate School, and (4) the student must have passed a qualifying examination.

### Typical M.F.A. Program

Students will encounter a range of experiences that will prepare them to be competent in their specialty. The M.F.A. candidate is required to complete a minimum of 18 hours in his/her studio area at ISU. Additional experiences will ordinarily include:

12 hours from the areas of theatre history, theatre criticism and theory, and dramatic literature

6 hours in performance-related courses outside the student's specialty.

3 hours in college teaching

6 hours from outside the theatre area They may be in film, oral interpretation, or in areas outside of the department.



A student may elect to pursue two related areas of concentration. If he is admitted in two areas, he must complete a minimum of 18 hours in each area.

The portfolio committee may prescribe experiences in addition to the above depending on the student's demonstrated competencies.

A maximum of one year may be taken in an off-campus internship program.

Students are required to enroll in Theatre 501, "M.F.A. Portfolio" during each semester of residency.

### **ILLINOIS STATE UNIVERSITY MFA PROGRAM STATEMENT OF OBJECTIVES**

1. To prepare well-trained theatre professionals who are capable of performing and teaching their art.

2. To meet the need for preparing university and college drama teachers who are educated in their subject matter field.

3. To help the students develop specialized interests and skills in a program 4. To provide an academic environment in which the artist-teacher can develop insight into the essential nature of his art and achieve a perspective in which to view himself in the art.

5. To recruit and develop graduate students who are so outstanding in their skills and commitment to excellence that they can serve, along with the faculty, as models for undergraduate students to emulate.

6. To develop a performance-training center at Illinois State University that will not only train professionals, but will provide a significant cultural resource for the people of Central Illinois.

### **Courses**

#### **302 THEATRE PRACTICUM (Formerly THE 350)**

1-3 sem. hrs.

Application of the principles of dramatic theory to the problems of play production. May be repeated. Course offered as credit/no credit for undergraduates. For graduate credit the course is graded (A-F).

#### **303 THEATRE ENCOUNTER (Formerly THE 339)**

1-3 sem. hrs.

Student-initiated projects in acting, directing, design, and playwriting presented and critiqued. Emphasis is on process rather than final product. May be repeated to total 6 hrs. MFA student may enroll for credit in each term of residency.

#### **309 DIRECTED PROJECTS**

1-3 sem. hrs. (Formerly THE 380)

Individually supervised study for the advanced student. Consent of instructor. May be repeated.

#### **311 VOCAL TECHNIQUE FOR THE ACTOR**

(Formerly 326 Voc/Phy Tech I)

3 sem. hrs.

Introductory studies and exercises in relaxation, breathing, alignment, tonal focus and articulation, leading to an understanding of vocal life and the special vocal demands placed upon the actor. Prerequisites: THE 110 or equiv., cons. inst.

#### **312 IMPROVISATION (Formerly THE 352)**

3 sem. hrs.

Detailed exploration of improvisational skills as a tool for rehearsal and performance. Prerequisites: THE 110 or equivalent and consent of instructor. Not for credit if had THE 112.

#### **313 SCRIPTED MATERIAL (Formerly 353)**

3 sem. hrs.

Analysis, rehearsal and performance of representative scripts. Prerequisites: THE 110 or equivalent and consent of instructor. Not for credit if had THE 113.

#### **314 ACTING STYLE: DISCOVERY AND PERFORMANCE (Formerly 336)**

3 sem. hrs.

Analysis, rehearsal, and performance technique examined through the work of a particular playwright. Prerequisites: THE 110 or equivalent and consent of instructor. May be repeated.

#### **315 ACTING: EXPLORING CHARACTERIZATIONS THROUGH ANIMAL EXERCISES. (Formerly 335)**

3 sem. hrs.

Techniques of actor research and characterization using animal models. Exploration of primitive behavior patterns requiring the actor's total physical and psychological commitment. Prerequisites: THE 110 or equiv and cons inst. May be repeated.

#### **316 ACTING FOR THE MUSICAL THEATRE (Formerly 338)**

3 sem. hrs.

A study of acting problems inherent in performing for various forms of musical theatre. Work to include preparation of musical numbers and scenes. Prerequisite: Consent of instructor.

#### **317 SPECIALIZED VOCAL TECHNIQUE I (Formerly 327 Voc/Phy Tech II)**

3 sem. hrs.

Advanced studies in vocal discipline for actors, including exercises in breath control, relaxation, alignment, tonal focus and articulation. Prerequisites: THE 111 or equiv and cons inst.

#### **318 SPECIALIZED VOCAL TECHNIQUE II (Formerly 328 Adv Studies Voc/Phy Tech)**

3 sem. hrs.

Further development of the actor's vocal discipline and resources focusing on specialized textual study, character acting and vocal improvisation. Prerequisite: THE 317 or cons inst.

#### **319 STAGE DIALECTS**

3 sem. hrs.

Emphasis on acquiring performance facility in a number of representative stage dialects. Prerequisites: THE 318 or equiv and cons inst.

#### **320 STAGE MOVEMENT I**

2 sem. hrs.

Fundamental principles of stage movement; physical improvisation; traditional stage deportment; performing in period costumes. Prerequisites: 6 hours of dance and physical education courses including fencing and ballet, cons inst.

#### **321 STAGE MOVEMENT II**

3 sem. hrs.

Advanced movement techniques including a study of period dances, stage violence, and mime. Prerequisites: THE 320; cons inst.

#### **322 AUDITIONING**

3 sem. hrs.

Preparation, performance and evaluation of numerous audition projects; discussion of the actor's search for employment in the professional theatre. Prerequisites THE 211 or 411, and cons inst.

**323 DIAGNOSTIC STUDIO FOR ACTORS****3 sem. hrs.**

Performance work specifically and individually devised to treat the diagnosed needs of each student's development as an actor. Prerequisites: THE 322 and cons inst.

**330 THEATRICAL COSTUME DESIGN****(Formerly 377)****3 sem. hrs.**

Research and practical application to theatrical costume designing: use of dramatic analysis. Prerequisite: THE 130. May be repeated to total 6 hrs. toward master's degree. MFA student may enroll for credit in each term of residency.

**331 HISTORY AND STYLES OF STAGE****COSTUMING****(Formerly 334)****3 sem. hrs.**

The costume's reflection of cultural and social milieu, and the costume's application to the stage. Prerequisite: THE 130 req.

**332 COSTUME CONSTRUCTION****3 sem. hrs.**

Pattern drafting, draping, fitting, and specialized construction techniques for the theatrical costume craftsman. Prerequisites: THE 130; cons inst. Lab arr.

**333 COSTUME CRAFTS****(Formerly 325)****3 sem. hrs.**

Theory and technique of costume construction and use of special materials. Prerequisite: THE 130. Course fee required.

**340 DIRECTING WORKSHOP****3 sem. hrs. (Formerly 337)**

Principles and methodologies of stage direction applied to particular problems in a workshop format. Prerequisite: THE 240. May be repeated up to 6 hrs. toward degree program.

**341 ORAL INTERPRETATION OF LITERATURE II****3 sem. hrs.**

A study of the group forms of Interpretation Readers Theatre and Chamber Theatre, with experiences to provide the student with practical applications of theory and principle. Prerequisite: THE 101.

**344 PRINCIPLES OF THEATRE MANAGEMENT****3 sem. hrs. (Formerly 360)**

Course introduces and demonstrates the practices and procedures of theatre management in today's theatre. Lab arranged.

**348 PLAYWRITING****3 sem. hrs.**

Playwriting techniques of selected masters with practical application of techniques in writing original plays. Also offered as ENG 348.

**361 ADVANCED STAGE LIGHTING****3 sem. hrs. (Formerly 330)**

Lighting design for proscenium and non-proscenium production; attention to system design. Prerequisites: THE 160, 260 req.

**362 STAGE DESIGN****3 sem. hrs. (Formerly THE 331)**

Nature, function, and aesthetics of scene design, with practice in composition. Prerequisites: THE 160, 260 req. Lab arranged.

**363 ADVANCED DESIGN****3 sem. hrs. (Formerly 340.)**

Intensive work in the areas of design and rendering for the stage; emphasis upon new materials and techniques. Prerequisite: THE 362. May be repeated to total 6 hrs. toward master's degree. MFA student may enroll for credit in each term of residency.

**364 ADVANCED PROJECTS IN DESIGN****2-4 sem. hrs. (Formerly 342)**

A study of design and production problems as they relate to productions being mounted by the Theatre Department. An emphasis is placed upon the creative and collaborative aspects of producing theatre. May be repeated. A maximum of six hours to be applied toward the M.S. or M.A. degree.

**365 SCENE PAINTING****3 sem. hours**

Development of the skills necessary for the organization, preparation, and execution of painted scenery for the stage.

**367 SCENOGRAPHIC TECHNIQUES****3 sem. hrs. (Formerly 349)**

A study of descriptive geometry and drafting techniques that are necessary in developing three-dimensional stage space and scenic units into plans, elevations, and working drawings. Pre-requisites: IT 210 or equiv.

**370 HISTORY OF THE CINEMA****3 sem. hrs. (Formerly 300)**

Historical and aesthetic development of the cinema. Lab: screening of significant films.

**371 FILM THEORY AND CRITICISM****3 sem. hrs. (Formerly 365)**

Theories relating to art of film making.

**376 THEATRE HISTORY I****4 sem. hrs. (Formerly 346)**

The study of the history of drama and theatrical production from their origin to approximately 1775. Prerequisite: THE 100 req.

**377 THEATRE HISTORY II****4 sem. hrs. (Formerly 347)**

The study of the history of drama and theatrical production from the late eighteenth century to the present. Prerequisite: THE 100 and 376 req.

**380 ADVANCED CREATIVE DRAMA****3 sem. hrs. (Formerly 332)**

In-depth work in creative drama, includes drama experiences, examining theories, comparing teaching strategies, and developing curricula. Prerequisite: THE 280 or C&I 250 req.

**381 CREATIVE DRAMA PRACTICUM****2-3 sem. hrs. (Formerly 333)**

Students will gain practical experience in creative drama teaching by leading a class in drama under faculty supervision for a semester. Prerequisites: THE 280 or C&I 250 and consent of instructor. Course offered as credit/no credit only for undergraduates. For graduate credit, the course is graded (A-F).

**385 PRINCIPLES OF THEATRE EDUCATION****5 sem. hrs. (Formerly 301)**

Philosophies of theatre education, teaching strategies, co-curricular programs, textbook analysis, and related field experience. Prerequisites: THE 285, C&I 200 (6 hrs) or 200.03 or 215 (2 hrs) or cons inst. req. Inc. Clin Exp.



**408 DIRECTED PROJECTS IN ACTING AND DIRECTING**  
1-4 sem. hrs. (Formerly 480)

Individually supervised projects in acting and directing offered by contract in arrangement with graduate faculty. Repeatable. Cons. of inst.

**410 SURVEY OF ACTING STYLES FOR GRADUATE STUDENTS I: EMPHASIS ON CONTENT**  
3 sem. hrs.

Survey of acting styles through performance of selected scenes, principal emphasis on evocation of psychological truth. Prerequisites: Graduate status and cons inst.

**411 SURVEY OF ACTING STYLES FOR GRADUATE STUDENTS II: EMPHASIS ON FORM**  
3 sem. hrs.

Survey of acting styles through performance of selected scenes, principal emphasis on rhetorical and comic form. Prerequisites: THE 410 and cons inst.

**447 SEMINAR IN PLAY DIRECTION**  
3 sem. hrs.

Formerly 437. An examination of the principles and theories underlying good directing practice. Major theories of the past will be surveyed as well as contemporary practices.

**463 TWENTIETH CENTURY STAGE DESIGN**  
3 sem. hrs.

A lecture-seminar course investigating major designers and movements of twentieth century design for the stage.

**464 ADVANCED PROJECTS IN DESIGN**  
2-4 sem. hours.

A study of design and production problems as they relate to productions executed by the Theatre Department. Prerequisite: Cons inst. May be repeated.

**468 THEATRES AND AUDITORIUMS: PLANNING AND DESIGN**  
3 sem. hrs. (Formerly 431)

Technical problems in stage and auditorium design and planning: emphasis on Stage Rigging Lighting, and Sound Equipment. Laboratory. Prerequisite: Theatre 362.

**474 THE AMERICAN THEATRE**  
3 sem. hrs. (Formerly 445)

Development of the theatre, its dramatic literature, and its arts and crafts in American from its beginning to present.

**475 HISTORY OF THE MODERN THEATRE**  
3 sem. hrs.

Developments in stagecraft, theatre architecture, directing, acting, and theatrical theory from the late 19th century to the present.

**476 SEMINAR IN THEATRE HISTORY**  
3 sem. hrs.

A seminar in theatre history with the topic changing each time the course is offered. Seminar in Theatre History may be repeated for up to 6 hours.

**478 DRAMA FORM**  
3 sem. hrs. (Formerly 439)

Attitudes toward drama form from classical Greek to modern theatre are examined from the perspective of contemporary theories of the nature of dramatic action.

**479 DRAMA THEORY AND CRITICISM**  
3 sem. hrs. (Formerly 438)

Theatre practice from the point of view of a contemporary aesthetic. Subject of investigation will change from semester to semester.

**498 PROFESSIONAL PRACTICE**  
1-12 sem. hrs.

Refer to index.

**499 MASTER'S THESIS**  
1-6 sem. hrs.

Refer to index.

**501 M.F.A. PORTFOLIO**  
1 sem. hr.

All students who are enrolled as "conditional" pending portfolio M.F.A. candidates, or who express an intention to apply for the M.F.A. admission, may enroll to prepare their audition interview materials under supervision of an adviser appointed by the Department Chairperson. Students accepted into the M.F.A. program *must* enroll for credit under the supervision of the Portfolio Committee Chairperson.

## GRADUATE SCHOOL WESTERN EUROPEAN STUDIES

**Coordinator:** Walter S. G. Kohn, Department of Political Science.

**Teaching Staff:** R. Austensen, J. Chizmar, H. Chung, T. Comfort, A. Dillingham, B. Fritzen, N. Holt, G. Homan, F. Kohlmeier, W. Kohn, B. Kuhn, J. Laurenti, E. J. Miller, G. Naidu, V. Owen, G. Petrossian, E. Reitan, E. Schmidt, C. Varner, I. Varner, L. Walker, R. Whitcomb.

The Western European Studies program leads to the degree of Master of Arts. The program is designed for students who wish to pursue international careers in business or government as well as for those who want a broader understanding of Western European affairs. The program consists of intensive training in a modern European language and course work in business, economics, geography, history, and political science.

### Courses

#### ECONOMICS

**345 INTERNATIONAL ECONOMICS**  
3 sem. hrs.

**355 ENVIRONMENTAL ECONOMICS**  
3 sem. hrs.

**357 URBAN AND REGIONAL ECONOMICS**  
3 sem. hrs.

**372 HISTORY OF ECONOMIC THOUGHT**  
3 sem. hrs.

**445 INTERNATIONAL ECONOMIC ANALYSIS**  
3 sem. hrs.

#### FINANCE AND LAW

**311 GOVERNMENT REGULATIONS OF BUSINESS**  
3 sem. hrs.

- 344 INTERNATIONAL FINANCE  
3 sem. hrs.

## FOREIGN LANGUAGES

Course work is available in French, German, Italian, and Spanish.

## GEOGRAPHY

- 435 GEOGRAPHY OF WESTERN EUROPE  
3 sem. hrs.
- 470 SEMINAR IN REGIONAL GEOGRAPHY  
3 sem. hrs.

## HISTORY

- 341 EUROPEAN INTELLECTUAL HISTORY  
TO 1600  
3 sem. hrs.
- 342 EUROPEAN INTELLECTUAL HISTORY  
SINCE 1600  
3 sem. hrs.
- 343 MODERN EUROPEAN DIPLOMATIC  
HISTORY I, 1789-1890  
3 sem. hrs.
- 344 MODERN EUROPEAN DIPLOMATIC  
HISTORY II, 1890-PRESENT  
3 sem. hrs.
- 345 FRENCH REVOLUTION AND  
NAPOLEAN, 1789-1815  
3 sem. hrs.
- 362 MODERN BRITAIN, 1815 TO THE PRESENT  
3 sem. hrs.
- 365 NAZI GERMANY, 1933-1945  
3 sem. hrs.

- 402 SEMINAR IN EUROPEAN HISTORY  
4 sem. hrs.

- 441 SEMINAR: EUROPEAN INTELLECTUAL  
HISTORY  
4 sem. hrs.

- 463 SEMINAR: MODERN FRANCE  
4 sem. hrs.

- 466 SEMINAR: MODERN GERMANY  
4 sem. hrs.

## MANAGEMENT AND MARKETING

- 420 ORGANIZATION STRUCTURE AND  
SYSTEMS  
3 sem. hrs.
- 421 ANALYSIS OF ORGANIZATIONAL  
BEHAVIOR  
3 sem. hrs.
- 426 SEMINAR IN MANAGEMENT  
3 sem. hrs.

## POLITICAL SCIENCE

- 351 INTERNATIONAL LAW  
3 sem. hrs.
- 441 SEMINAR IN COMPARATIVE POLITICS  
3 sem. hrs.
- 451 SEMINAR IN INTERNATIONAL RELATIONS  
3 sem. hrs.
- 452 SEMINAR IN INTERNATIONAL  
ORGANIZATIONS AND LAW  
3 sem. hrs.



# FULL MEMBERS OF THE GRADUATE FACULTY

**Ahmed A. Abdel-Halim (1970)**

Associate Professor of Management  
Ph.D., University of Illinois

**Vernon A. Adams (1970)**

Director of Community College and External  
Relations  
Ph.D., University of Illinois

**Wilma J. Alexander (1970)**

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Head Baseball Coach,  
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- Jean M. Grever (1963)**  
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- Charles T. Griffin (1974)**  
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- Jim L. Grimm (1974)**  
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Associate Professor of Education  
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Professor of Business Education and Administrative  
Services  
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- James A. Hallam (1966)**  
Chairperson of the Department of Accounting  
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- Raphael M. Haller (1976)**  
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- John F. Hansen (1972)**  
Associate Professor of Chemistry  
Ph.D., Duke University
- Warren R. Harden (1954)**  
Assistant Vice President, Director of Institutional Research and Computer Operations  
Professor of Economics,  
Ph.D., Indiana University
- Charles B. Harris (1968)**  
Chairperson, English Department  
Professor of English  
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- Richard R. Hart (1961)**  
Associate Professor of Geology  
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- W. Douglas Hartley (1954)**  
Associate Professor of Art  
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- Harry W. Huizinga (1967)**  
Professor of Parasitology  
Ph.D., University of Connecticut
- Lloyd M. Hulitt (1972)**  
Associate Professor of Speech Pathology and Audiology  
Ph.D., The Ohio State University
- Raymond H. Hunt (1965)**  
Associate Professor of Chemistry  
Ph.D., University of Illinois
- Robert W. Hunt (1969)**  
Associate Professor of Political Science  
Ph.D., Princeton University
- Mary K. Huser (1966)**  
Director of Credit Instruction in the College of Continuing Education and Public Service,  
Professor of Reading  
Ed.D., University of Illinois
- H. Dean Hurstuf (1969)**  
Assistant Professor of Information Sciences  
Ed.D., Indiana University
- Barbara B. Hutchinson (1966)**  
Associate Professor of Speech Pathology and Audiology  
Ph.D., University of Utah
- Virgil R. Hutton (1960)**  
Associate Professor of English  
Ph.D., The University of Michigan
- Thaddeus C. Ichniowski (1961)**  
Professor of Chemistry  
Ph.D., Purdue University
- E. Carmen Inel (1964)**  
Professor of Dance  
Ph.D., University of Iowa
- Arnold J. Insel (1969)**  
Associate Professor of Mathematics  
Ph.D., University of California at Berkeley
- Eugene R. Irving (1969)**  
Professor of Education  
Ed.D., University of Illinois
- Everett N. Israel (1978)**  
Chairperson of the Department of Industrial Technology, Professor of Industrial Technology  
Ed.D., West Virginia University
- Irving Jacks (1969)**  
Professor of Psychology  
Ph.D., New York University
- Dale R. Jackson (1975)**  
Associate Professor of Education  
Ed.D., Northern Illinois University
- Ronald H. Jackson (1972)**  
Associate Professor of Art  
M.F.A., California College of Arts and Crafts
- Ted R. Jackson (1969)**  
Associate Professor of Information Sciences  
Ph.D., University of Wisconsin
- Kenneth E. James (1962)**  
Professor of Agricultural Education  
Ed.D., University of Missouri
- Edward B. Jelks (1968)**  
Professor of Anthropology  
Ph.D., The University of Texas
- D. Reed Jensen (1966)**  
Associate Professor of Physiology  
Ph.D., Utah State University
- Kenneth E. Jesse (1967)**  
Associate Professor of Physics  
Ph.D., Arizona State University
- Milford C. Jochums (1948)**  
Professor of English  
Ph.D., University of Illinois
- James J. Johnson (1966)**  
Professor of Psychology  
Ph.D., Northwestern University
- Stephen C. Johnson (1976)**  
Assistant Professor of Information Sciences  
Ed.D., Indiana University
- John L. Johnston (1966)**  
Professor of Industrial Technology  
Ed.D., University of Missouri
- H. Twyman Jones (1967)**  
Associate Professor of Education  
Ed.D., University of Missouri
- Margaret L. Jones (1966)**  
Professor of Physical Education  
Ph.D., The University of Wisconsin
- Donald S. Kachur (1966)**  
Professor of Education  
Ed.D., Indiana University
- Steven E. Kagle (1968)**  
Professor of English  
Ph.D., The University of Michigan
- Frederick D. Kagy (1968)**  
Professor of Industrial Technology  
Ed.D., University of Wyoming
- Alfred L. Kaisershot (1970)**  
Professor of Business Education and Administrative Experiences  
Ed.D., The University of Nebraska
- Jacqueline O. Karch (1957)**  
Professor of Home Economics  
Ed.D., Washington University
- Ira L. Karp (1979)**  
Associate Professor of Applied Computer Science  
Ph.D., University of Washington
- Alan J. Katz (1975)**  
Assistant Professor of Genetics  
Ph.D., The Ohio State University
- Kenneth C. Kennard (1968)**  
Professor of Philosophy  
Ph.D., Northwestern University
- Larry D. Kennedy (1962)**  
Professor of Education  
Ed.D., University of Illinois
- Betty J. Keough (1952)**  
Professor of Physical Education  
Ph.D., University of Iowa
- Robert J. Kerber (1974)**  
Professor of Management  
D.B.A., Texas Tech. University
- Susan T. Kern (1974)**  
Assistant to the Dean of the College of Applied Science and Technology  
Associate Professor of Home Economics  
Ph.D., Purdue University
- John W. Kirk (1966)**  
Professor of Theatre  
Ph.D., University of Florida
- George C. Kiser (1974)**  
Assistant Professor of Political Science  
Ph.D., University of Massachusetts
- Keith P. Knoblock (1967)**  
Associate Professor of Art  
M.F.A., The Ohio State University
- Robert W. Koshler (1961)**  
Professor of Physical Education  
Ed.D., University of Utah
- Frederick W. Kohnmeyer (1964)**  
Professor of History  
Ph.D., University of Minnesota
- Walter S. G. Kohn (1956)**  
Professor of Political Science  
Ph.D., New School for Social Research, New York, New York
- Catherine W. Konisky (1974)**  
Associate Professor of Information Sciences  
Ph.D., University of Iowa
- James B. Kracht (1978)**  
Chairperson of the Department of Curriculum and Associate Professor of Education  
Ph.D., The University of Washington
- Joe W. Kraus (1968)**  
Director of Libraries,  
Professor of Library Science  
Ph.D., University of Illinois
- Brigitta J. Kuhn (1961)**  
Professor of French  
Ph.D., Sorbonne, University of Paris

- Michael E. Kurz (1968)**  
Professor of Chemistry  
Ph.D., Case Institute of Technology
- Douglas H. Lamb (1970)**  
Director of Student Counseling Services,  
Professor of Psychology  
Ph.D., The Florida State University
- Ralph L. Lane (1968)**  
Professor of Theatre  
Ph.D., Northwestern University
- Gurcharan S. Laumas (1973)**  
Professor of Economics  
Ph.D., Wayne State University
- Joseph L. Laurenti (1962)**  
Professor of Spanish and Italian  
Ph.D., University of Missouri
- Ronald L. Laymon (1965)**  
Director of Graduate Programs in the College of  
Education  
Professor of Educational Administration  
Ed.D., Indiana University
- Dorothy E. Lee (1962)**  
Chairperson of the Department of Sociology,  
Anthropology and Social Work  
Associate Professor of Sociology  
Ph.D., University of Iowa
- Kenneth L. Leicht (1967)**  
Associate Professor of Psychology  
Ph.D., Northwestern University
- Elmer A. Lemke (1965)**  
Professor of Psychology  
Ph.D., University of Wisconsin
- Wilbert M. Leonard, II (1970)**  
Associate Professor of Sociology  
Ph.D., The Ohio State University
- Franklin G. Lewis (1967)**  
Professor of Education  
Ed.D., North Texas State University
- Marjorie L. Lewis (1951)**  
Associate Professor of Psychology  
Ph.D., University of Illinois
- Anthony E. Liberta (1961)**  
Professor of Mycology  
Ph.D., University of Illinois
- William R. Linneman (1964)**  
Professor of English  
Ph.D., University of Illinois
- Robert D. Liverman (1969)**  
Professor of Physical Education  
Ph.D., University of Illinois
- David L. Livers, Jr. (1962)**  
Professor of Education  
Ph.D., The University of Iowa
- Wayne N. Lockwood, Jr. (1977)**  
Associate Professor of Industrial Technology  
Ph.D., University of Illinois
- Franzle L. Loopp (1970)**  
Professor of Industrial Technology  
Ed.D., University of Northern Colorado
- Ned B. Lovell (1977)**  
Associate Professor of Education  
Ph.D., The Florida State University
- Marvin L. Luther (1966)**  
Associate Professor of Physics  
Ph.D., Virginia Polytechnic Institute and State  
University
- Mary A. Lynn (1966)**  
Coordinator of Continuing Education in the College  
of Education,  
Associate Professor of Educational Administration  
Ed.D., Illinois State University
- Laurene Mabry (1980)**  
Director of Women's Intercollegiate Athletics,  
Professor of Physical Education  
Ph.D., The University of Iowa
- David J. MacDonald (1971)**  
Associate Professor of History  
Ph.D., University of Minnesota
- Normand W. Madore (1961)**  
Professor of Education  
Ed.D., Wayne State University
- Thomas E. Malone (1968)**  
Associate Professor of Art  
M.S., The University of Wisconsin
- Leon M. Manelis (1975)**  
Associate Professor of Psychology  
Ph.D., Stanford University
- Franklin G. Mataler (1968)**  
Executive Director of the Board of Regents,  
Professor of Higher Education  
Ph.D., University of California at Berkeley
- Paul F. Mattingly (1962)**  
Professor of Geography  
Ph.D., The Pennsylvania State University
- Robert E. McAdam (1970)**  
Director of the Office of Research Services and  
Grants,  
Professor of Physical Education  
Ph.D., University of Illinois
- Bernard J. McCarnay (1958)**  
Professor of Economics  
Ph.D., University of Pittsburgh
- John R. McCarthy (1974)**  
Associate Professor of Education  
Ph.D., The Florida State University
- Willard McCarthy (1955)**  
Associate Professor of Industrial Technology  
Ed.M., University of Illinois
- George F. McCoy, Jr. (1962)**  
School Psychologist in the Metcalf Elementary  
School,  
Professor of Psychology  
Ph.D., University of Illinois
- Derek A. McCracken (1969)**  
Associate Professor of Biological Sciences  
Ph.D., University of Toronto
- J H McGrath (1968)**  
Professor of Educational Administration  
Ph.D., The University of Iowa
- Elizabeth S. McMahan (1971)**  
Associate Professor of English  
Ph.D., University of Oregon
- Walter B. Mead (1967)**  
Associate Professor of Political Science  
Ph.D., Duke University
- John V. Meador (1969)**  
Associate Professor of Finance  
Ph.D., The University of Iowa
- Ralph A. Mayering (1961)**  
Professor of Education  
Ph.D., The University of Iowa
- E. Joan Miller (1962)**  
Professor of Geography  
Ph.D., University of North Carolina
- Larry R. Miller (1971)**  
Associate Professor of Industrial Technology  
Ph.D., The Ohio State University
- Wilma H. Miller (1968)**  
Professor of Education  
Ed.D., University of Arizona
- Frederick V. Mills (1968)**  
Chairperson of the Department of Art,  
Professor of Art  
Ed.D., Indiana University
- Orrin J. Mizer (1947)**  
Associate Professor of Biological Sciences  
(University High School)  
Ph.D., The University of Iowa
- Edward L. Mockford (1960)**  
Professor of Entomology  
Ph.D., University of Illinois
- Goenraad L. Mohr (1970)**  
Professor of Management  
Ph.D., University of Minnesota
- Alan D. Monroe (1970)**  
Associate Professor of Political Science  
Ph.D., Indiana University
- Barry E. Moore (1962)**  
Professor of Art  
Ed.D., University of Illinois
- Clarence L. Moore (1961)**  
Professor of Animal Science  
Ph.D., South Dakota University
- William W. Morgan (1968)**  
Associate Professor of English  
Ph.D., The University of Tennessee
- Lanny E. Morreau (1978)**  
Associate Professor of Special Education  
Ph.D., University of Minnesota
- Joel P. Myers (1970)**  
Professor of Art  
M.F.A., Alfred University (New York)
- Mathew J. Nadakavukaren (1964)**  
Professor of Botany and Electron Microscopy  
Ph.D., Oregon State University
- Janice G. Neulaib (1970)**  
Director of the Writing Center,  
Associate Professor of English  
Ph.D., University of Illinois
- Edwin E. Niemi (1968)**  
Professor of Art  
M.S., The University of Wisconsin
- Ann E. Nolte (1973)**  
Professor of Health Education  
Ph.D., The Ohio State University
- Phares G. O'Daffer (1968)**  
Professor of Mathematics  
Ph.D., University of Illinois
- Anthony L. Ostrosky (1973)**  
Assistant Professor of Economics  
Ph.D., University of Pittsburgh
- Albert D. Otto (1969)**  
Chairperson of the Department of Mathematics,  
Professor of Mathematics  
Ph.D., The University of Iowa
- Virginia S. Owen (1964)**  
Chairperson of the Department of Economics  
Associate Professor of Economics  
Ph.D., University of Illinois
- David J. Parent (1968)**  
Professor of German  
Ph.D., University of Cincinnati
- Kelvin M. Parker (1967)**  
Professor of Spanish  
Ph.D., The University of Chicago
- James T. Parr (1970)**  
Assistant Professor of Mathematics  
Ph.D., Indiana University
- James E. Patterson (1957)**  
Professor of Geography  
Ph.D., University of Illinois
- Richard J. Payne (1975)**  
Assistant Professor of Political Science  
Ph.D., Howard University (Washington, D.C.)
- Warren S. Perry (1965)**  
Acting Dean of the College of Business  
Professor of Business Education and Administrative  
Services  
Ed.D., University of Chicago
- Walter D. Pierce (1969)**  
Professor of Education  
Ed.D., University of Southern California
- Mark A. Plummer (1960)**  
Professor of History  
Ph.D., The University of Kansas
- Vernon C. Pohlmann (1955)**  
Professor of Sociology  
Ph.D., Washington University
- Roger E. Potter (1971)**  
Chairperson of the Department of Finance and Law  
Professor of Finance  
Ph.D., St. Louis University
- David G. Poultney (1968)**  
Professor of Music  
Ph.D., The University of Michigan
- Michael J. Powers (1976)**  
Chairperson of the Department of Applied Computer  
Science  
Associate Professor of Applied Computer Science  
Ph.D., Indiana University
- Mildred S. Pratt (1968)**  
Professor of Social Work  
Ph.D., University of Pittsburgh
- Robert L. Preston (1974)**  
Assistant Professor of Physiology  
Ph.D., University of California
- Samuel T. Price (1968)**  
Professor of Special Education  
Ed.D., University of Pittsburgh
- Calvin L. Pritner (1968)**  
Chairperson of the Department of Theatre,  
Professor of Theatre  
Ph.D., University of Illinois
- W. Laurence Quane (1967)**  
Assistant Dean of Undergraduate Instruction for  
Probation and Reinstatement  
Professor of Industrial Technology  
Ph.D., Michigan State University



- Rati Ram (1977)**  
Assistant Professor of Economics  
Ph.D., The University of Chicago
- David D. Ramsey (1973)**  
Associate Professor of Economics  
Ph.D., University of Minnesota
- Gary C. Ramseyer (1965)**  
Professor of Psychology  
Ph.D., The University of Iowa
- Tairni M. Ranta (1958)**  
Professor of English  
Ph.D., University of Minnesota
- Lynn S. Rapin (1973)**  
Counselor in the Student Counseling Services  
Associate Professor of Education  
Ph.D., University of Illinois
- Jo Ann Rayfield (1966)**  
Associate Professor of History  
Ph.D., Vanderbilt University
- Jack E. Razor (1957)**  
Dean of the College of Applied Science and Technology,  
Professor of Physical Education  
P.E.D., Indiana University
- Gordon M. Redding (1972)**  
Associate Professor of Psychology  
Ph.D., University of Wisconsin
- Glenn D. Reeder (1977)**  
Assistant Professor of Psychology  
Ph.D., University of California at Santa Barbara
- John T. Rehm (1969)**  
Associate Professor of Music  
M.M., Indiana University
- Earl A. Reitan (1954)**  
Professor of History  
Ph.D., University of Illinois
- Richard C. Reiter (1964)**  
Professor of Chemistry  
Ph.D., Purdue University
- Max R. Rennels (1968)**  
Professor of Art  
Ed.D., Indiana University
- Stanley W. Renner (1968)**  
Associate Professor of English  
Ph.D., University of Iowa
- Kenneth A. Retzer (1958)**  
Professor of Mathematics  
Ph.D., University of Illinois
- Evelyn J. Rex (1958)**  
Professor of Education  
Ph.D., George Peabody College for Teachers
- Max Rexroad (1978)**  
Associate Professor of Accounting  
Ph.D., University of Illinois; C.P.A.
- Jonathan E. Reyman (1972)**  
Associate Professor of Anthropology  
Ph.D., Southern Illinois University
- Dent M. Rhodes (1965)**  
Professor of Education  
Ph.D., The Ohio State University
- John H. Rich (1964)**  
Acting Chairperson of the Department of Business  
Professor of Business Education and Administrative Services  
Ed.D., Indiana University
- Doris M. Richards (1951)**  
Associate Professor of Speech Pathology And Audiology  
Ph.D., Case Western Reserve University
- Arlan G. Richardson (1971)**  
Professor of Chemistry and Biological Sciences  
Ph.D., Oklahoma State University
- Carmen H. Richardson (1971)**  
Acting Director of the Division of Student Academic Services  
Associate Professor of English  
Ed.D., Oklahoma State University
- Wayne A. Riddle (1977)**  
Assistant Professor of Physiology  
Ph.D., The University of New Mexico
- Rodney P. Riegler (1978)**  
Associate Professor of Education  
Ph.D., The Ohio State University
- Robert K. Ritt (1971)**  
Professor of Mathematics  
Ph.D., Columbia University
- Robert Rittenhouse (1978)**  
Assistant Professor of Special Education  
Ph.D., University of Illinois
- Stanley G. Rives (1956)**  
Associate Provost, Dean of Undergraduate Instruction,  
Professor of Information Sciences  
Ph.D., Northwestern University
- Frederick J. Roberts (1968)**  
Assistant Professor of Political Science  
Ph.D., Princeton University
- Hibbert R. Roberts (1968)**  
Chairperson of the Department of Political Science,  
Professor of Political Science  
Ph.D., The University of Washington
- Don R. Robinson (1972)**  
Associate Professor of Quantitative Methods  
D.B.A., Louisiana State University
- James L. Roderick (1956)**  
Acting Chairperson of the Department of Music  
Professor of Music  
Ed.D., University of Illinois
- Paul E. Rosene (1967)**  
Associate Professor of Music  
Ed.D., University of Illinois
- Robert E. Rumery (1964)**  
Associate Professor of Psychology  
Ph.D., University of Illinois
- Bernard L. Ryder (1956)**  
Professor of Chemistry  
Ph.D., University of Illinois
- Howard H. Rye (1957)**  
Professor of Music  
Ed.D., Columbia University
- Creta D. Sabine (1975)**  
Associate Professor of Educational Administration  
Ed.D., Arizona State University
- Joe A. Sagebiel (1970)**  
Professor of Animal Science  
Ph.D., University of Missouri
- Richard A. Salome (1970)**  
Professor of Art  
Ed.D., Stanford University
- Theodore Sands (1950)**  
Director of International Studies,  
Professor of History  
Ph.D., University of Wisconsin
- Edward L. Schapsmeier (1966)**  
Professor of History  
Ph.D., University of Southern California
- Jean Scharfberg (1968)**  
Professor of Theatre  
Ph.D., University of Wisconsin
- Leonard W. Schmalz (1974)**  
Associate Professor of Psychology  
Ph.D., University of Michigan
- Elsie A. Schmidt (1968)**  
Professor of Geography  
Ph.D., University of Munich, Germany
- Raymond L. Schmitt (1968)**  
Professor of Sociology  
Ph.D., The University of Iowa
- Virginia Schnepf (1967)**  
Professor of Education  
Ed.D., University of Illinois
- Juergen M. Schroeder (1969)**  
Professor of Physics  
Ph.D., Cornell University
- Fritz E. Schwalm (1970)**  
Acting Chairperson of the Department of Biological Sciences  
Associate Professor of Biological Sciences  
Ph.D., Phillips Universität, Marburg (Germany)
- Phoebe M. Scott (1966)**  
Professor of Physical Education  
Ph.D., The University of Iowa
- Thomas K. Searight (1959)**  
Professor of Geology  
Ph.D., University of Illinois
- Thomas G. Secoy (1968)**  
Professor of Accounting  
Ph.D., University of Illinois; C.P.A.
- William D. Semlak (1974)**  
Director of the Honors Program,  
Acting Chairperson of the Department of Information Sciences  
Associate Professor of Information Sciences  
Ph.D., University of Minnesota
- Kyle C. Sessions (1967)**  
Associate Professor of History  
Ph.D., Ohio State University
- John R. Sharpam (1972)**  
Director of the Teaching-Learning Center,  
Director of the Faculty and Instructional Development Program  
Professor of Theatre  
Ph.D., University of Colorado
- Charles E. Sherman (1969)**  
Professor of Education  
Ed.D., Northern Illinois University
- Thomas W. Shilgalla (1967)**  
Associate Professor of Mathematics  
Ph.D., University of Illinois
- David L. Shrader (1974)**  
Chairperson of the Department of Music,  
Professor of Music  
D.M.A., University of Oregon
- Sol Shulman (1969)**  
Professor of Chemistry  
Ph.D., North Dakota State University
- Stanley B. Shuman (1960)**  
Assistant Vice President for Physical Planning and Operations,  
Professor of Geography  
Ph.D., University of Illinois
- L. Moody Simms, Jr. (1967)**  
Professor of History  
Ph.D., University of Virginia
- Arnold A. Slan (1967)**  
Professor of Education  
Ed.D., Indiana University
- Joan K. Smith (1978)**  
Assistant Professor of Education  
Ph.D., Iowa State University
- Kathryn W. Smith (1974)**  
Professor of Home Economics  
Ed.D., University of Illinois
- Ralph L. Smith (1959)**  
Professor of Information Sciences  
Ph.D., The University of Wisconsin
- Robert D. Spelzer (1974)**  
Associate Professor of Mathematics  
Ph.D., Cornell University
- Keith E. Stearns (1973)**  
Professor of Education  
Ed.D., Indiana University
- E. Robert Staffl (1966)**  
Associate Professor of Art  
M.S., Southern Illinois University
- C. Louis Steinburg (1969)**  
Professor of Art  
M.S. in Ed., southern Illinois University
- Gerald E. Stevenson (1977)**  
Associate Professor of Chemistry  
Ph.D., Texas A&M University
- Richard A. Stivers (1970)**  
Associate Professor of Sociology  
Ph.D., Southern Illinois University
- Kenneth H. Strand (1970)**  
Research Consultant in the Office of Institutional Research and Computer Operations,  
Associate Professor of Physical Education  
Ph.D., University of Iowa
- C. Edward Streeter (1967)**  
Dean of the College of Arts and Sciences,  
Professor of Information Sciences  
Ph.D., Michigan State University
- Gary R. Sudano (1970)**  
Associate Professor of Music  
Ed.D., University of Illinois
- Robert D. Sutherland (1964)**  
Professor of English  
Ph.D., The University of Iowa
- Mark E. Swardlik (1977)**  
Assistant Professor of Psychology  
Ph.D., Michigan State University
- Joe E. Talkington (1962)**  
Professor of Industrial Technology  
Ed.D., University of Northern Colorado
- J. Curtis Tannahill (1963)**  
Director of Speech and Hearing Clinic,  
Associate Professor of Speech Pathology and Audiology  
Ph.D., The University of Kansas

- Rodger L. Tarr (1969)**  
Professor of English  
Ph.D., University of South Carolina
- Patrick Tarrant (1963)**  
Professor of French  
Ed.D., Columbia University
- Tse-Hao Tcheng (1969)**  
Assistant Director of Institutional Research  
Associate Professor of Information Sciences  
Ph.D., The University of Iowa
- Tse-Kia Tcheng (1968)**  
Associate Director of Computer Operations  
Associate Professor of Physical Education  
Ph.D., University of Iowa
- Clayton F. Thomas (1964)**  
Chairperson of the Department of Educational Administration and Foundations  
Professor of Educational Administration  
Ph.D., The University of Iowa
- Shailer Thomas (1969)**  
Assistant Provost and Director of Summer Sessions,  
Professor of Sociology  
Ph.D., Michigan State University
- Charles F. Thompson (1978)**  
Assistant Professor of Evolutionary Vertebrate Ecology  
Ph.D., Indiana University
- Carol A. Thornton (1974)**  
Assistant Professor of Mathematics  
Ph.D., Indiana University
- William L. Tolone (1970)**  
Associate Professor of Sociology  
Ph.D., University of Tennessee
- Jim N. Tone (1963)**  
Professor of Physiology and Anatomy  
Ph.D., Iowa State University
- Naomi W. Townner (1968)**  
Professor of Art  
M.F.A., Rochester Institute of Technology
- John E. Trotter (1956)**  
Professor of Geography  
Ph.D., The University of Chicago
- Wayne O. Truex (1957)**  
Professor of Physical Education  
Ed.D., University of Utah
- Joseph C. Tsang (1968)**  
Professor of Chemistry and Biological Sciences  
Ph.D., The University of Oklahoma
- Robert T. Tussing (1968)**  
Professor of Accounting  
Ph.D., University of Texas; C.P.A., C.D.P.
- George E. Tuttle (1976)**  
Associate Professor of Information Sciences  
Ph.D., University of Illinois
- Charles L. Vanden Eynden (1969)**  
Professor of Mathematics  
Ph.D., University of Oregon
- Wilbur R. Venerable (1963)**  
Director of Admissions and Records,  
Associate Professor of Education  
Ph.D., Southern Illinois University
- Joel G. Verner (1967)**  
Professor of Political Science  
Ph.D., University of Kansas
- Walter M. Vernon (1963)**  
Professor of Psychology  
Ph.D., Washington University
- Michael H. Vinitzky (1972)**  
Associate Professor of Psychology  
Ph.D., University of Minnesota
- Frank C. Vybiral (1971)**  
Associate Professor of Theatre  
M.F.A., The University of Texas at Austin
- Morton D. Waimon (1961)**  
Professor of Education  
Ed.D., Columbia University
- James E. Walker (1977)**  
Chairperson of the Department of Specialized Educational Development,  
Professor of Special Education  
Ed.D., The Pennsylvania State University
- Lawrence D. Walker (1969)**  
Associate Professor of History  
Ph.D., University of California at Berkeley
- Robert H. Walsh (1964)**  
Professor of Sociology  
Ph.D., The University of Iowa
- Jack A. Ward (1968)**  
Professor of Ethology  
Ph.D., University of Illinois
- Lloyd I. Watkins (1977)**  
President of the University,  
Professor of Information Sciences  
Ph.D., University of Wisconsin-Madison
- David F. Weber (1967)**  
Professor of Genetics  
Ph.D., Indiana University
- Gary D. Weede (1970)**  
Professor of Industrial Technology  
Ph.D., Iowa State University
- Robert D. Weigel (1969)**  
Professor of Vertebrate Zoology and Paleontology  
Ph.D., University of Florida
- Milton E. Weisbecker (1963)**  
Professor of Physical Education  
Ed.D., Syracuse University
- Douglas X. West (1975)**  
Chairperson of the Department of Chemistry,  
Professor of Inorganic Chemistry  
Ph.D., Washington State University
- Richard O. Whitcomb (1974)**  
Professor of German  
Ph.D., Stanford University
- Charles A. White (1957)**  
Dean of the Graduate School,  
Professor of Information Sciences  
Ph.D., University of Wisconsin
- Ray L. White (1968)**  
Professor of English  
Ph.D., University of Arkansas
- Leah M. Wilcox (1972)**  
Associate Professor of English  
Ed.D., University of Southern California
- Brian J. Wilkinson (1979)**  
Assistant Professor of Microbiology and Chemistry  
Ph.D., University of Sheffield
- David B. Williams (1976)**  
Associate Professor of Music  
Ph.D., The University of Washington
- Jeral R. Williams (1970)**  
Acting Chairperson of the Department of Foreign Languages  
Associate Professor of Psychology  
Ph.D., The University of Iowa
- Macon L. Williams (1968)**  
Chairperson of the Department of Psychology,  
Associate Professor of Psychology  
Ph.D., The Ohio State University
- Wenmouth Williams, Jr. (1974)**  
Associate Professor of Information Sciences  
Ph.D., The Florida State University
- Thomas D. Wilson (1961)**  
Associate Professor of Political Science  
Ph.D., University of Illinois
- Raymond V. Wiman (1973)**  
Professor of Information Sciences  
Ed.D., University of Nebraska
- Forrest G. Wisely (1973)**  
Assistant Professor of Industrial Technology  
Ed.D., University of Illinois
- Emory E. Wiseman (1963)**  
Associate Professor of Industrial Technology  
Ed.D., University of Illinois
- Harvey S. Woods (1957)**  
Professor of Agricultural Economics  
Ph.D., University of Illinois
- William C. Woodson (1968)**  
Associate Professor of English  
Ph.D., University of Pennsylvania
- Donna Jo Workman (1969)**  
Professor of Physical Education  
Ph.D., The University of Iowa
- Harold J. Wray (1973)**  
Associate Professor of History  
Ph.D., University of Hawaii
- Ralph D. Wray (1970)**  
Professor of Business Education and Administrative Services  
Ed.D., Indiana University
- David W. Wright (1969)**  
Associate Professor of Information Sciences  
Ph.D., Wayne State University
- Walker M. Wyman, Jr. (1971)**  
Assistant Professor of History  
Ph.D., The University of Washington
- Martin A. Young (1968)**  
Chairperson of the Department of Speech Pathology and Audiology,  
Professor of Speech Pathology and Audiology  
Ph.D., The University of Iowa
- Robert D. Young (1967)**  
Professor of Physics  
Ph.D., Purdue University
- Richard C. Youngs (1964)**  
Associate Professor of Education  
Ph.D., Michigan State University
- Harvey G. Zeidenstein (1965)**  
Professor of Political Science  
Ph.D., New York University
- William D. Zeller (1963)**  
Professor of Education  
Ph.D., Michigan State University
- Mary Zey-Ferrell (1972)**  
Associate Professor of Sociology  
Ph.D., Louisiana State University
- Wayne H. Zook (1968)**  
Professor of Industrial Technology  
Ph.D., Iowa State University



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- George T. Amerson (1976)**  
Associate Professor of Education  
Ed.D., University of Oregon
- Susan F. Amster (1972)**  
Associate Professor of Art  
Ph.D., University of Texas
- Wayne D. Andrews (1977)**  
Assistant Professor of Industrial Technology  
Ed.D., West Virginia University
- Donald J. Armstrong (1966)**  
Associate Professor of Music  
D.M.A., University of Texas
- Joseph E. Armstrong (1976)**  
Assistant Professor of Botany  
Ph.D., Miami University
- Robert L. Baker (1971)**  
Associate Professor of Education  
Ed.D., Syracuse University
- Margaret K. Balbach (1973)**  
Associate Professor of Plant and Soil Science  
Ph.D., University of Illinois
- Kenneth R. Beckman (1960)**  
Assistant Professor of Special Education  
Adv. Cert. in Ed., University of Illinois
- Russell B. Bedford (1972)**  
Professor of Music  
M.M., The University of Michigan
- Robert J. Berger (1976)**  
Counselor in the Student Counseling Services,  
Assistant Professor of Psychology  
Ed.D., New York University
- Raymond M. Bergner (1977)**  
Assistant Professor of Psychology  
Ph.D., University of Colorado
- Norman C. Bettis (1974)**  
Associate Professor of Education  
Ph.D., Michigan State University
- Mildred M. Boaz (1974)**  
Assistant Professor of English  
Ph.D., University of Illinois
- Stuart W. Bray (1976)**  
Assistant Professor of Education  
Ed.D., University of Virginia
- Richard K. Brewer (1979)**  
Assistant Professor of Applied Computer Science  
Ph.D., University of Wisconsin-Madison
- John F. Brower (1974)**  
Assistant Professor of Art  
M.F.A., School of the Art Institute of Chicago
- Lynn H. Brown (1960)**  
Associate Professor of Mathematics  
Ph.D., The University of Iowa
- Ronald L. Budig (1979)**  
Associate Professor of Industrial Technology  
Ph.D., Illinois State University
- William H. Burk (1976)**  
Assistant Professor of Art  
M.F.A., The University of Nebraska
- Ann V. Butler (1975)**  
Assistant Professor of Theatre  
M.F.A., University of Iowa
- Adam F. Carr (1979)**  
Assistant Professor of Corrections  
Ph.D., Dalhousie University
- Charlotte P. Carr (1968)**  
Associate Professor of Home Economics  
M.Ed., University of Illinois
- Rodney T. Carswell (1972)**  
Associate Professor of Art  
M.F.A., University of Colorado
- Donald V. Chalmers (1974)**  
Assistant Professor of Psychology  
Ph.D., The Pennsylvania State University
- Hou Tak Cheung (1979)**  
Assistant Professor of Microbiology  
Ph.D., The University of Wisconsin-Madison
- Shared S. Chitgopekhar (1978)**  
Associate Professor of Quantitative Methods  
Ph.D., The Florida State University
- Gary J. Clark (1968)**  
Assistant Professor of Chemistry  
Ph.D., University of Utah
- Luis F. Clay-Mendes (1976)**  
Assistant Professor of Spanish  
Ph.D., Washington University
- Stanley R. Clemens (1968)**  
Associate Professor of Mathematics  
Ph.D., University of South Carolina
- Donald J. Cochran (1972)**  
Counselor in the Student Counseling Services,  
Associate Professor of Education  
Ph.D., University of Arizona
- Raymond L. Cohn (1977)**  
Assistant Professor of Economics  
Ph.D., University of Oregon
- William E. Colvin (1971)**  
Associate Professor of Art  
Ed.D., Illinois State University
- LaVerne A. Cox (1979)**  
Professor of Finance  
Ph.D., The University of Nebraska
- Steven G. Cox (1976)**  
Assistant Professor of Corrections  
Ph.D., University of Iowa
- Brian L. Crissey (1978)**  
Assistant Professor of Applied Computer Science  
Ph.D., The Johns Hopkins University
- George E. Cunningham (1973)**  
Assistant Professor of History  
M.S., The University of Wisconsin
- Diana M. Curtino (1975)**  
Assistant Professor of Education  
Ed.D., Northern Illinois University
- Julian Dawson (1975)**  
Associate Professor of Music  
Mus. B., Dublin University (Ireland)
- Patricia A. Dearborn (1978)**  
Director, ISU Area Service Center for Gifted  
Assistant Professor of Education  
Ph.D., Illinois State University
- Darlene T. DeSantis (1978)**  
Visiting Assistant Professor of Psychology  
Ph.D., University of Connecticut
- C. Lynn DeVore (1977)**  
Assistant Professor of English  
Ph.D., The University of Tulsa.
- Alan E. Dillingham (1976)**  
Assistant Professor of Economics  
Ph.D., The University of Texas
- Boyce A. Drummond**  
Assistant Professor of Ecology  
Ph.D., University of Florida
- Orlyn P. Edge (1968)**  
Associate Professor of Mathematics  
Ph.D., The University of Iowa
- Bernard Eichen (1975)**  
Professor of Music  
Curtis Institute of Music
- Carl J. Ekberg (1970)**  
Associate Professor of History  
Ph.D., Rutgers University
- Ann H. Elder (1975)**  
Assistant Professor of Political Science  
Ph.D., University of Minnesota
- Nicholas J. Ernest (1969)**  
Assistant Professor of Art  
M.A.T., Indiana University
- Richard D. Finch (1977)**  
Assistant Professor of Art  
M.F.A., Southern Illinois University Edwardsville
- George P. Foeller (1960)**  
Associate Professor of Music  
M.A., University of Connecticut
- Charles E. Francis (1968)**  
Associate Professor of Industrial Technology  
Ed.D., University of Missouri
- Dorothy K. Franks (1973)**  
Assistant Professor of Education  
Ph.D., University of Illinois
- Wayne H. Galler (1970)**  
Associate Professor of Elementary Education  
Ph.D., University of Wisconsin
- Stephen C. Gates (1976)**  
Assistant Professor of Chemistry and Biological  
Sciences  
Ph.D., Michigan State University
- Debra L. Gold (1976)**  
Assistant Professor of Art  
M.F.A., Indiana University
- Malvin A. Goldstein (1971)**  
Assistant Professor of Psychology  
Ph.D., Rutgers University
- George J. Gordon (1970)**  
Associate Professor of Political Science  
Ph.D., Syracuse University
- Julie Gowan (1972)**  
Assistant Professor of Philosophy  
Ph.D., The University of Wisconsin
- Claude L. Graeff (1979)**  
Assistant Professor of Management  
Ph.D., University of Illinois
- Daniel F. Graybill (1977)**  
Counselor in Student Counseling Center,  
Assistant Professor of Psychology  
Ph.D., Vanderbilt University
- M. Lynelle Hale (1976)**  
Assistant Professor of Home Economics  
Ph.D., Texas Woman's University
- Terrance C. Halpin (1977)**  
Assistant Professor of Economics  
M.S., Xavier University
- Douglas A. Hardwick (1977)**  
Assistant Professor of Psychology  
Ph.D., University of Virginia
- Victoria A. Harris (1973)**  
Assistant Professor of English  
Ph.D., University of Illinois
- Robert G. Hathway (1966)**  
Associate Professor of Mathematics  
Ph.D., The University of Wisconsin
- Vincent Hazelton (1976)**  
Assistant Professor of Information Sciences  
Ph.D., The University of Oklahoma
- Roger E. Herberts (1963)**  
Associate Professor of Industrial  
Technology  
Ed.D., University of Illinois
- Lotus D. Hershberger (1970)**  
Assistant Professor of Mathematics  
Ph.D., The Florida State University
- Philip E. Hillstrom (1969)**  
Associate Professor of Music  
D.M.A., University of Oregon
- Thomas A. Hollihan (1978)**  
Assistant Professor of Information Sciences  
Ph.D., The University of Nebraska-Lincoln
- Dianne D. Horgan (1978)**  
Visiting Assistant Professor of Psychology  
Ph.D., The University of Michigan
- Merle R. Howard (1966)**  
Assistant Professor of Speech Pathology and  
Audiology  
Ph.D., University of Cincinnati
- Ching-Yuan Hung (1974)**  
Lecturer and Research Associate in Genetics  
Ph.D., University of California at Davis
- Harriet S. Hutter (1969)**  
Associate Professor of Spanish  
Ph.D. University of Illinois
- Samuel Hutter (1965)**  
Assistant Professor of Psychology  
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- Vivian R. Jackson (1974)**  
Counselor in Student Counseling Services,  
Assistant Professor of Education  
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Assistant Professor of Industrial Technology  
Ed.D., East Texas State University
- Suraj P. Kapoor (1973)**  
Assistant Professor of Information Sciences  
Ph.D., Southern Illinois University
- William O. Kauth (1968)**  
Head Trainer,  
Associate Professor of Physical Education  
Ph.D., University of Utah
- Kerry Kerber (1973)**  
Director of Teacher Corps, Part-time  
Assistant Professor of Education  
Ph.D., Wayne State University
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Associate Professor of Geology  
Ph.D., The University of Iowa
- Herbert L. Koerselman (1974)**  
Associate Professor of Music  
DMA, The University of Iowa
- Douglas J. Koertge (1978)**  
Assistant Professor of Theatre  
Ph.D., University of Illinois
- Donald E. LaCasse Jr. (1973)**  
Assistant Professor of Theatre  
M.A., Michigan State University
- Barbara Hunt Lazerson (1969)**  
Associate Professor of Education  
Ph.D., The University of Nebraska
- Arthur Lewis (1972)**  
Professor of Music  
Ph.D., Indiana University
- Michael A. Lorber (1970)**  
Professor of Education  
Ph.D., Ohio University
- Larry W. Long (1979)**  
Assistant Professor of Information Sciences  
M.S., North Texas State University
- Donald E. Luman (1977)**  
Assistant Professor of Geography  
Ph.D., University of Illinois
- Kenton F. Machina (1973)**  
Chairperson of the Department of Philosophy,  
Associate Professor of Philosophy  
Ph.D., University of California at Los Angeles
- Patricia J. Marcum (1976)**  
Associate Professor of Business Education and  
Administrative Services  
Ph.D., University of Illinois
- S. Scott Massin (1977)**  
Assistant Professor of Business Law  
J.D., University of Nebraska
- Robert L. Metcalf (1961)**  
Director of University High School Athletics,  
Professor of Physical Education,  
P.E.D., Indiana University
- Edmund C. Miller III (1979)**  
Assistant Professor of English  
Ph.D., State University of New York at Stony Brook
- Gabriel Miller (1977)**  
Assistant Professor of English  
Ph.D., Brown University
- Alan P. Milliren (1969)**  
Associate Professor of Education  
Ed.D., University of Illinois
- Ethel B. Mincey (1972)**  
Assistant Professor of Education  
Ph.D., University of Illinois
- Patricia K. Monson (1976)**  
Assistant Professor of Speech Pathology and  
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- Benjamin L. Moore (1973)**  
Assistant Professor of Psychology  
Ph.D., The Florida State University
- Charles E. Morris (1966)**  
Secretary of the University,  
Associate Professor of Mathematics  
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Assistant Professor of Education  
Ed.D., University of Illinois
- Samuel Mungo (1968)**  
Assistant Professor of Education  
Ph.D., New York University
- Johnny I. Murdock (1977)**  
Assistant Professor of Information Sciences  
Ph.D., The University of Iowa
- Gurramkonda N. Naidu (1976)**  
Assistant Professor of Finance  
Ph.D., The University of Iowa
- Robert S. Nelson (1976)**  
Associate Professor of Geology  
Ph.D., The University of Iowa
- Marilyn P. Newby (1965)**  
Associate Professor of Art  
M.S. in Ed., Southern Illinois University
- Richard L. Newby (1968)**  
Associate Professor of English  
Ph.D., University of Colorado
- Martin K. Nickels (1974)**  
Assistant Professor of Anthropology  
Ph.D., The University of Kansas
- Adele N. Nikolakaya (1978)**  
Assistant Professor of Economics  
Ph.D., Economics Institute of USSR State Planning  
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- Frederick R. Noyes (1968)**  
Assistant Professor of Special Education  
M.S. in Ed., New York State University at Buffalo
- Laura M. Patterson (1976)**  
Professor of Management  
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Professor of Industrial Technology  
Ed.D., University of Illinois
- John R. Perrachione (1979)**  
Visiting Assistant Professor of  
Management and Marketing  
Ph.D., University of South Florida
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Associate Professor of Music  
Ph.D., The University of Wisconsin
- George A. Petrossian (1963)**  
Associate Professor of French  
Ph.D., The University of Michigan
- William E. Piland (1979)**  
Associate Professor of Education  
Ed.D., Northern Illinois University
- Olgett Pocs (1960)**  
Associate Professor of Sociology  
M.A., University of Illinois
- Ronald R. Pope (1976)**  
Assistant Professor of Political Science  
Ph.D., University of Pennsylvania
- Ralph J. Rascati (1979)**  
Assistant Professor of Microbiology  
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- Robert P. Raus (1979)**  
Associate Professor of Recreation  
Re.D., Indiana University
- Pamela S. Ritch (1973)**  
Assistant Professor of Theatre  
Ph.D., The University of Texas at Austin
- Robert R. Romeo (1973)**  
Assistant Professor of Theatre  
M.F.A., Illinois State University
- Eugene R. Rozanski (1976)**  
Associate Professor of Accounting  
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Associate Professor of Theatre  
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Professor of Physical Education (University High  
School)  
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Assistant Professor of Information Sciences  
Ph.D., The Florida State University
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Associate Professor of Mathematics  
Ph.D., The University of Wisconsin-Madison
- Becky J. Smith (1976)**  
Assistant Professor of Health Education  
Ph.D., University of Illinois
- Arnold R. Snow (1978)**  
Assistant Professor of Education  
Ph.D., The University of Arizona
- James B. Spalding Jr., (1978)**  
Visiting Professor of Marketing  
Ph.D., University of Illinois
- Alan R. Sodetz (1972)**  
Assistant Professor of Psychology  
Ph.D., University of Missouri
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Assistant Professor of Mathematics  
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Assistant Professor of Special Education  
M.S., The University of Tennessee
- Herold S. Stern (1971)**  
Associate Professor of Education  
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- Michael D. Sublett (1970)**  
Chairperson of the Department of Geography-Geology  
Associate Professor of Geography  
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- Susan R. Sweeney (1978)**  
Assistant Professor of Theatre  
M.F.A., University of Massachusetts
- Fred A. Taylor (1974)**  
Associate Professor of Elementary Education  
Ph.D., Purdue University
- David R. Tell (1974)**  
Associate Professor of Art  
M.F.A., Alfred University
- Roy C. Treadway (1977)**  
Associate Professor of Sociology  
Ph.D., The University of Michigan
- Anthony E. Trojanowski (1977)**  
Assistant Professor of Mathematics  
Ph.D., University of California at San Diego
- Gary W. Tubb (1979)**  
Assistant Professor of Education  
Ph.D., Texas A & M University
- Benny F. Tucker (1977)**  
Assistant Professor of Mathematics  
Ph.D., University of Illinois
- David L. Tucker (1979)**  
Associate Professor of Education  
Ph.D., University of Illinois
- Michael T. Turner (1975)**  
Adjunct Associate Professor of Plant and Soil  
Science  
Ph.D., Iowa State University
- Carson H. Varner (1975)**  
Associate Professor of Business Law  
J.D., The University of Oklahoma
- Iris I. Varner (1976)**  
Assistant Professor of Business Education and  
Administrative Services  
Ph.D., The University of Oklahoma
- Anne E. Walter (1963)**  
Assistant Professor of Art  
M.S., Illinois State University
- William D. Walters, Jr. (1969)**  
Associate Professor of Geography  
Ph.D., Indiana University
- Peter Y. Wang (1972)**  
Associate Professor of Health, Physical Education,  
Recreation, and Dance  
Ph.D., University of New Mexico
- James W. Webb (1978)**  
Assistant Professor of Chemistry  
Ph.D., The University of Michigan
- Anita H. Webb-Lupo (1979)**  
Assistant Professor of Home Economics  
Ed.D., The University of Tennessee
- Roger B. Waller (1965)**  
Associate Professor of Physical Education  
Ph.D., University of Illinois
- Beverly D. Wilson (1963)**  
Professor of Physical Education  
Ph.D., The Ohio State University
- Michael W. Winchell (1974)**  
Associate Professor of Business Education  
Ed.D., Illinois State University
- Donald H. Wort (1977)**  
Associate Professor of Finance



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# The Community

